



Sales Quote

INDUSTRIAL BUSINESS INTL CORP

1580 Sawgrass Corporate Parkway
Suite 130, Sunrise, FL 33323
Tel: 954-302-3187, 315-4781
Fax: 954-838-7746
E-mail: ibicorp@intech-ie.com
Tax Certificate No. **16-8012998465-1**

Quote #

IBI-2025-0027

Date:

Feb 6th, 2025

Customer ID

PETROPIAR - VEN

Bill To:

Chevron PetroPiar

Complejo Petrolero y Petroquimico Jose, Edo
Anzoategui, Venezuela
Att: Nancy Cordero – Ing. Costos
corderoni@petropiar.pdvsa.com

Ship To:

Custom Agent to be informed at La Guaira port,
Venezuela

Your #	Our #	Sales Rep	CIF	SHIP VIA	Terms	Validity
Budgetary	IBI-2025-0027/	L. Zuñiga W. Brito	La Guaira Port	BWPPD	See below	90 days

Item	Qty	Units	Description	Unit Pr (US\$)	Total (US\$)
1	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M7011-L/CS 60x2.77/60x2,77-MRF-ZTSS50x185mm, SS TAG 10-LIT-151 SAP 1114396 Magnetic Level Gauge Type BNA-SD00 Pressure: 60.0 psi ; Temp.: 14°F...340 °F; Fluid density: 881 kg/m ³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 7011 mm Measuring range: 7011 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float:50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M7011	\$80,688.00	\$80,688.00

			Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 7011 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACKHXANAM eID: US34489782 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 254.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 1 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 286.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0 Customs tariff number (HS code) : 90261029		
2	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M4268-L/CS 60x2.77/60x2,77-MRF-ZTSS50x280mm, SS TAGS 10-LIT-301 SAP 1114397 Magnetic Level Gauge Type BNA-SD00 Pressure: 55.0 psi ; Temp.: 14°F...440 °F; Fluid density: 764 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 4268 mm Measuring range: 4268 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float:50 x 280mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap	\$63,376.00	\$63,376.00

			-316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M4268 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 4268 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX86.FADAC3HXANAM eID: US34489879 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 186.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : PEEK-FFKM (Kalrez 6375) / with / -20...+250°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 178.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6 Customs tariff number (HS code) : 90261029		
3	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M0610-L/CS 60x2.77/60x2,77-MRF-ZTSS50x225mm, SS TAG 10-LIT-351, 10-LIT-355 SAP 1114398 Magnetic Level Gauge Type BNA-SD00 Pressure: 50.0 psi ; Temp.: 14°F...290 °F; Fluid density: 850 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 610 mm	\$33,472.00	\$66,944.00

		Measuring range: 610 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: 50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M610 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 610 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACDHXANAM eID: US34490364 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 42.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 34.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0 Customs tariff number (HS code) : 90261029		
--	--	---	--	--

4	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M0610-L/CS 60x2.77/60x2.77-MRF-ZTSS50x240mm, SS TAGS 10-LIT-357, 10-LIT-358 SAP 1114399 Magnetic Level Gauge Type BNA-SD00 Pressure: 50.0 psi ; Temp.: 14°F...470 °F; Fluid density: 830 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 610 mm Measuring range: 610 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: 50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M610 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 610 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX86.FAJA12HXANAM eID: US34495505 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material J : Exchangeable cable (ø4mm) with centering weight / Alloy C22 (2.4602) Probe : mounted Length (from seal surface) : 42.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height) 1.57in / 1.18in (for 2" Schedule 160) Process fitting / Material A1 : Flange 2" 300lb RF, ASME B16.5 / Alloy C22 (2.4602) solid Seal / Second line of defense / Process temperature : Ceramic graphite / with / -196...+400°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175)	\$33,472.00	\$66,944.00
---	---	-----	---	-------------	-------------

			PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 34.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 51.7 Customs tariff number (HS code) : 90261029		
5	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M0610-L/CS 60x2.77/60x2,77-MRF-ZTSS50 x 350mm, HAST C-276 TAGS 10-LIT-352, 10-LIT-356 SAP 1114400 Magnetic Level Gauge Type BNA-SD00 Pressure: 50.0 psi ; Temp.: 14°F...640 °F; Fluid density: 820 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 317/317L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 610 mm Measuring range: 610 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float:50 x 350mm, HASTEALLOY C-276 Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -317ss/ CS construction -317SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M610 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 610 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX86.FADAC3HXANAM eID: US34495796 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 42.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height)	\$33,472.00	\$66,944.00

			1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : PEEK-FFKM (Kalrez 6375) / with / -20...+250°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 34.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6 Customs tariff number (HS code) : 90261029		
6	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1753-L/CS 60x2.77/60x2,77-MRF-ZTSS50x225mm, SS TAG 57-LIT-001 SAP 1114401 Magnetic Level Gauge Type BNA-SD00 Pressure: 16.8 psi ; Temp.: 14°F...230 °F; Fluid density: 850 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1753 mm Measuring range: 1753 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float:50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1753 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1753 mm Housing material: Aluminum anodized	\$44,744.00	\$44,744.00

			Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX81.FADACDHXANAM eID: US34478045 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 87.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 79.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
7	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1727-L/CS 60x2.77/60x2,77-MRF-ZTSS50x225mm, SS TAG 57-LIT-012 SAP 1114402 Magnetic Level Gauge Type BNA-SD00 Pressure: 11.7 psi ; Temp.: 14°F...230 °F; Fluid density: 850 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1727 mm Measuring range: 1727 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float:50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug	\$44,584.00	\$44,584.00

			Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1727 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1727 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACDHXANAM eID: US34482216 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 86.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 78.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
8	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M0356-L/CS 60x2.77/60x2,77-MRF-ZTSS50x225mm, SS TAG 57-LIT-011 SAP 1114403 Magnetic Level Gauge Type BNA-SD00 Pressure: 11.7 psi ; Temp.: 14°F...230 °F; Fluid density: 850 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 356 mm Measuring range: 356 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4"	\$31,160.00	\$31,160.00

			Drain connection: Butt weld end 3/4" Float: 50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M0356 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 356 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX81.FADACDHXANAM eID: US34482410 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 32.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 24.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
9	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1220-L/CS 60x2.77/60x2.77-MRF-ZTSS50 x 225mm, SS TAG 57-LIT-041 SAP 1114407	\$36,000.00	\$36,000.00

Magnetic Level Gauge Type BNA-SD00
Pressure: 10.1 psi ; Temp.: 14°F...230 °F; Fluid density: 970 kg/m³
Service: TOTAL Level
Design code: ASME B31.3
Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
Duo stainless steel 316/316L (EN 1.4401/1.4404)
Process connection: CS Flange ASME B16.5 2" 300# Form RF
Distance C-to-C: 1220 mm
Measuring range: 1220 mm
Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug
Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4"
Drain connection: Butt weld end 3/4"
Float: 50 x 225mm, SS
Dampening element: Dampening spring, bottom, with cover
Gasket(s): Spiral wound type, SS 316L/Graphite
Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG
Top stand-off (T): 100 mm
Bottom stand-off (U): 250 mm
Nameplate: Stainless steel laser printed
Includes Bottom: Mag Trap
-316ss/ CS construction
-316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
-Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
Location of secondary chamber: 3 o'clock (right side of MLG chamber)
Process connection GT: CS Flange ASME B16.5 2" 300# Form RF
Distance between chambers center lines: 200 mm
Radar connection stand-off: 254 mm
Side chamber bottom stand-off: 254 mm
Insertion external sensor: With
MRF-M1220
Level Indicator for Magnetic Level Gauge Type BMD-FA
Measuring range: 1220 mm
Housing material: Aluminum anodized
Indicating elements: Stainless steel flaps Red & white
Graduated scale: Aluminum engraved Graduation unit: inch
INCLUDES INSULATION JACKET

w/RADAR Transmitter FX81.FADACDHXANAM
eID: US34484059
TDR sensor for continuous level and **INTERFACE** measurement of liquids Scope F : USA
Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
Version / Material D : Exchangeable cable (ø2mm) with centering weight /
316 Probe : mounted
Length (from seal surface) : 66.000 inch
Length of rigid part : 3.937 inch
Dimensions centering weight (diameter / height)
1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160)
Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 /
316/316L Seal / Second line of defense /
Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C
Electronics H : Two-wire 4 ... 20 mA/HART
Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC ,
Model USB63-48.N
Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar)
Cable entry / Connection N : ½NPT / Blind plug
Display/Adjustment module PLICSCOM A : mounted
Certificates M : Yes
Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE
MR0175 + NACE MR0103)
PMI test : RFA (positive material identification) incl. 3.1 inspection certificate
Supply certificates : with goods
Operating instructions : EN - English Number of operating instructions : 2
Measurement loop identification label : of Stainless Steel
Customer-specific adjustment : Yes

			- Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 58.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
10	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1220-L/CS 60x2.77/60x2.77-MRF-ZTSS50 x 225mm, SS TAG 57-LIT-051 SAP 1114408 Magnetic Level Gauge Type BNA-SD00 Pressure: 3.5 psi ; Temp.: 14°F...230 °F; Fluid density: 970 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1220 mm Measuring range: 1220 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: 50 x 225mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1220 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1220 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACDHXANAM eID: US34484059 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 66.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART	\$36,000.00	\$36,000.00

			Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 58.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
11	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M508-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H Tags # 41-LIT-101; 41-LIT-102 SAP 1119265 Magnetic Level Gauge Type BNA-SD00 Pressure: 100 psi ; Temp.: 14°F...357 °F; Fluid density: 898 -914 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1219 mm Measuring range: 1219 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1219 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1219 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> SS Tag Plate	\$35,976.00	\$71,952.00

			w/ RADAR Transmitter FX81.FADACKHXANAM eID: US34262802 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 66.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 58.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
12	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M1778-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H TAG #: 41-LIT-103 SAP 1119266 Magnetic Level Gauge Type BNA-SD00 Pressure:100 psi ; Temp.: 14°F...311 °F; Fluid density: 898 - 956 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1778 mm Measuring range: 1778 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm	\$34,744.00	\$34,744.00

			Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1778 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1778 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/ RADAR Transmitter FX81.FADACKHXANAM eID: US34262996 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 88.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 80.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
13	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M1219-L/CS 60x2.77/60x2,77-MRF-ZTSS410/PN25/R48H Tag: 41-LIT-111A SAP 1119267 Magnetic Level Gauge Type BNA-SD00 Pressure:150 psi ; Temp.: 14°F...200 °F; Fluid density: 462 - 542 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1219 mm Measuring range: 1778 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTSS410/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 480 mm Nameplate: Stainless steel laser printed	\$30,384.00	\$30,384.00

			Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1219 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1778 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> With/ RADAR Transmitter FX81.FADACDHXANAM eID: US34263093 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 66.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 58.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
14	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2032-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H TAG #: 43-LIT-061 SAP 1119274 Magnetic Level Gauge Type BNA-SD00 Pressure:100 psi ; Temp.: 14°F...357 °F; Fluid density: 898 - 914 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 2031 mm	\$46,088.00	\$46,088.00

			Measuring range: 2031 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With - MRF-M2032 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1778 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACKHXANAM eID: US34263190 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 98.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : without Overvoltage protection of the supply cable without Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 90.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
15	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M3225-L/CS 60x2.77/60x2.77-MRF-ZVSS185/PN25/R48H	\$50,144.00	\$50,144.00

TAG #: 43-LIT-062
SAP 1119275

Magnetic Level Gauge Type BNA-SD00
 Pressure: 50 psi ; Temp.: 14°F...300 °F; Fluid density: 919 – 948 kg/m³
 Service: TOTAL Level
 Design code: ASME B31.3
 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
 Duo stainless steel 316/316L (EN 1.4401/1.4404)
 Process connection: CS Flange ASME B16.5 2" 300# Form RF
 Distance C-to-C: 3225 mm
 Measuring range: 3225 mm Chamber end top: Pipe cap
 Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF
 Vent connection: Butt weld end 3/4"
 Drain connection: Butt weld end 3/4"
 Float: ZVSS185/PN25/R48H
 Dampening element: Dampening spring, bottom, with cover
 Gasket(s): Spiral wound type, SS 316L/Graphite
 Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm
 Bottom stand-off (U): 250 mm
 Nameplate: Stainless steel laser printed
 Includes Bottom: Mag Trap
 -316ss/ CS construction
 -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
 -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
 Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
 Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm
 Radar connection stand-off: 254 mm
 Side chamber bottom stand-off: 254 mm
 Insertion external sensor: With

–
 MRF-M3225
 Level Indicator for Magnetic Level Gauge Type BMD-FA
 Measuring range: 1778 mm
 Housing material: Aluminum anodized
 Indicating elements: Stainless steel flaps Red & white
 Graduated scale: Aluminum engraved Graduation unit: inch
INCLUDES INSULATION JACKET

w/RADAR Transmitter FX81.FADACDHXANAM

eID: US34263675
 Scope F : USA
 Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
 Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted
 Length (from seal surface) : 145.000 inch
 Length of rigid part : 3.937 inch
 Dimensions centering weight (diameter / height)
 : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160)
 Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense /
 Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C
 Electronics H : Two-wire 4 ... 20 mA/HART
 Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N
 Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug
 Display/Adjustment module PLICSCOM A : mounted
 Certificates M : Yes
 Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103)
 PMI test : RFA (positive material identification) incl. 3.1 inspection certificate
 Supply certificates : with goods

			Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 137.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
16	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M508-L/CS 60x2.77/60x2.77-MRF-ZTSS215/PN25/R48H Tag: 45-LIT-001, 45-LIT-002 SAP 1138068 Magnetic Level Gauge Type BNA-SD00 Pressure: 277 psi ; Temp.: 14°F...200 °F; Fluid density: 657 - 731 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 508 mm Measuring range: 508 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTSS215/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M508 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 508 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/ RADAR Transmitter FX81.FADACDHXANAM eID: US34280068 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 38.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART	\$22,952.00	\$45,904.00

			Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 30.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
17	3	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M813-L/CS 60x2.77/60x2.77-MRF-ZTS200/PN25/A110 Tag: 12-LIT-236, 12-LIT-246, 12-LIT-256 SAP 1138069 Magnetic Level Gauge Type BNA-SD00 Pressure: 285 psi ; Temp.: 14°F...425 °F; Fluid density: 880 – 1000 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 813 mm Measuring range: 813 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS200/PN25/A110 Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M813 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 813 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX86.FA4AC1HXANAM eID: US34275315 Scope F : USA	\$40,720.00	\$122,160.00

			Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material : Coax (ø42.2mm) with multiple hole and reference distance / 316L Length of the reference distance : 750 mm / 29.53 in Length (from seal surface) : 78.000 inch Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : Ceramic graphite / with / -196...+280°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : without Overvoltage protection of the supply cable without Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 38.000 inch - 0 % (distance from seal surface) : 70.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6		
18	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M1219-L/CS 60x2.77/60x2,77-MRF-ZVSS225/PN25/R48H Tag: 18-LIT-221 SAP 1138070 Magnetic Level Gauge Type BNA-SD00 Pressure: 200 psi ; Temp.: 14°F...357 °F; Fluid density: 794 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1219 mm Measuring range: 1219 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS225/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1219 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1219 mm	\$36,008.00	\$36,008.00

			Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACKHXANAM eID: US34262802 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 66.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 58.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
19	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM - Redundant BNA/DU-2"/300/RF-M1981-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H Tag:12-LI-725, 12-LIT-726 SAP 1138071 Magnetic Level Gauge Type BNA-SD00 Pressure: 75 psi ; Temp.: 14°F...400 °F; Fluid density: 902 - 920 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1981 mm Measuring range: 1981 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug	\$32,232.00	\$64,464.00

			Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1981 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1981 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX86.FADAC1HXANAM eID: US34279777 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 96.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : Ceramic graphite / with / -196...+280°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 88.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6		
20	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1981-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H Tag:18-LIT-042 SAP 1138072 Magnetic Level Gauge Type BNA-SD00 Pressure: 75 psi ; Temp.: 14°F...200 °F; Fluid density: 794 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1600 mm Measuring range: 1600 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover	\$27,048.00	\$27,048.00

			Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1981 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1981 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX81.FADACDHXANAM eID: US34278031 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 78.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 88.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
21.1	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2134-L/CS 60x2.77/60x2,77-MRF-ZTSS300/PN25/R48H / INTF Tag:18-LIT-021 SAP 1138073 Magnetic Level Gauge Type BNA-SD00 Pressure: 225 psi ; Temp.: 14°F...155 °F; Fluid density: 659 / 991 kg/m³ Service: INTERFACE Level Design code: ASME B31.3	\$39,320.00	\$39,320.00

Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
Duo stainless steel 316/316L (EN 1.4401/1.4404)
Process connection: CS Flange ASME B16.5 2" 300# Form RF
Distance C-to-C: 2134 mm
Measuring range: 2134 mm
Chamber end top: Pipe cap
Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF
Vent connection: Butt weld end 3/4"
Drain connection: Butt weld end 3/4"
Float: ZTSS300/PN25/R48H -INTF
Dampening element: Dampening spring, bottom, with cover
Gasket(s): Spiral wound type, SS 316L/Graphite
Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG
Top stand-off (T): 100 mm
Bottom stand-off (U): 250 mm
Nameplate: Stainless steel laser printed
Includes Bottom: Mag Trap
-316ss/ CS construction
-316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
-Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
Location of secondary chamber: 3 o'clock (right side of MLG chamber)
Process connection GT: CS Flange ASME B16.5 2" 300# Form RF
Distance between chambers center lines: 200 mm
Radar connection stand-off: 254 mm
Side chamber bottom stand-off: 254 mm
Insertion external sensor: With
MRF-M2134
Level Indicator for Magnetic Level Gauge Type BMD-FA
Measuring range: 2134 mm
Housing material: Aluminum anodized
Indicating elements: Stainless steel flaps Red & white
Graduated scale: Aluminum engraved Graduation unit: inch

W/RADAR Transmitter FX81.FADACDHXANAM

eID: US34277158
TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA
Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
Version / Material D : Exchangeable cable (ø2mm) with centering weight /
316 Probe : mounted
Length (from seal surface) : 102.000 inch
Length of rigid part : 3.937 inch
Dimensions centering weight (diameter / height)
: 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160)
Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 /
316/316L Seal / Second line of defense /
Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C
Electronics H : Two-wire 4 ... 20 mA/HART
Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC ,
Model USB63-48.N
Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar)
Cable entry / Connection N : ½NPT / Blind plug
Display/Adjustment module PLICSCOM A : mounted
Certificates M : Yes
Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE
MR0175 + NACE MR0103)
PMI test : RFA (positive material identification) incl. 3.1 inspection certificate
Supply certificates : with goods
Measurement loop identification label : of Stainless Steel
Customer-specific adjustment : Yes
- Unit : inch
- 100 % (distance from seal surface) : 10.000 inch
- 0 % (distance from seal surface) : 94.000 inch
Linearization : No
Min. process pressure in bar : -1.000
Max. process pressure in bar : 40.0

21.2	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2134-L/CS 60x2.77/60x2,77-MRF-ZTSS300/PN25/R48H / INTF Tag: 18-LIT-023 SAP 1138073 Magnetic Level Gauge Type BNA-SD00 Pressure: 225 psi ; Temp.: 14°F...155 °F; Fluid density: 659 -669 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 2134 mm Measuring range: 2134 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTSS300/PN25/R48H -INTF Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M2134 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 2134 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch W/RADAR Transmitter FX81.FADACDHXANAM eID: US34277158 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 102.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103)	\$28,936.00	\$28,936.00
------	---	-----	--	-------------	-------------

			PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 94.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
21.3	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2896-L/CS 60x2.77/60x2,77-MRF-ZTSS50 x 185mm, SS TAGS 63-LIT-020 SAP 1138073 Magnetic Level Gauge Type BNA-SD00 Pressure: 100 psi ; Temp.: 14°F...250 °F; Fluid density: 920 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 2896 mm Measuring range: 2896 mm Chamber end top: Flat Cap w/ 3/4" NPT Vent & Plug Chamber end bottom: 300# Slip on Flange and Blind Mating Flange w/ 3/4" NPT Drain & Plug Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: 50 x 185mm, SS Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M2896 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 2896 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACFHANAM eID: US34496572 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 132.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense /	\$39,320.00	\$39,320.00

			Process temperature F : FKM (SHS FPM 70C3 GLT) / without / -40...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Operating instructions : EN - English Number of operating instructions : 2 Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 124.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
22	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2337-L/CS 60x2.77/60x2,77-MRF-ZTSS215/PN25/R48H Tag:18-LIT-041 SAP 1138074 Magnetic Level Gauge Type BNA-SD00 Pressure: 190 psi ; Temp.: 14°F...185 °F; Fluid density: 664 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 2337 mm Measuring range: 2337 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTSS215/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M2337 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 2337 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM	\$28,936.00	\$28,936.00

			eID: US34277449 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 110.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 102.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
23	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1372-L/CS 60x2.77/60x2,77-MRF-ZTSS300/PN25/R48H Tag:18-LIT-144, 18-LIT-143 SAP 1138075 Magnetic Level Gauge Type BNA-SD00 Pressure: 200 psi ; Temp.: 14°F...210 °F; Fluid density: 533 – 556 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1372 mm Measuring range: 1372 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTSS300/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 250 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm	\$25,728.00	\$51,456.00

			Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1372 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1372 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM eID: US34279389 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 72.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 64.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
24	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1829-L/CS 60x2.77/60x2,77-MRF-ZTS520/PN28/R48H Tag:18-LIT-184, 18-LIT-181 SAP 1138076 Magnetic Level Gauge Type BNA-SD00 Pressure: 405 psi ; Temp.: 14°F...175 °F; Fluid density: 452 – 470 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1829 mm Measuring range: 1829 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS520/PN28/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 580 mm Nameplate: Stainless steel laser printed	\$27,784.00	\$55,568.00

			Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1829 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1829 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch W/RADAR Transmitter FX81.FADACDHXANAM eID: US34257758 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 90.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 82.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
25	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M610-L/CS 60x2.77/60x2,77-MRF-ZTS620/PN28/R48H Tag:18-LIT-162-, 18-LIT-161 SAP 1138077 Magnetic Level Gauge Type BNA-SD00 Pressure: 405 psi ; Temp.: 14°F...315 °F; Fluid density: 432 - 462 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 610 mm Measuring range: 610 mm Chamber end top: Pipe cap	\$34,328.00	\$68,656.00

			Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS620/PN28/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 680 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M610 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 610 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX81.FADACKHXANAM eID: US34250386 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 42.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature K : FFKM (Kalrez 6375) / without / -20...+200°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 34.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
26	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M762-L/CS 60x2.77/60x2,77-MRF-ZTS300/PN28/R48H-INTF Tag:18-LIT-182 SAP 1138079	\$24,264.00	\$24,264.00

Magnetic Level Gauge Type BNA-SD00
Pressure: 405 psi ; Temp.: 14°F...175 °F; Fluid density: 452 - 470 / 993 kg/m³
Service: **INTERFACE** Level
Design code: ASME B31.3
Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
Duo stainless steel 316/316L (EN 1.4401/1.4404)
Process connection: CS Flange ASME B16.5 2" 300# Form RF
Distance C-to-C: 762 mm
Measuring range: 762 mm
Chamber end top: Pipe cap
Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF
Vent connection: Butt weld end 3/4"
Drain connection: Butt weld end 3/4"
Float: ZTS300/PN28/R48H-INTF
Dampening element: Dampening spring, bottom, with cover
Gasket(s): Spiral wound type, SS 316L/Graphite
Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG
Top stand-off (T): 100 mm
Bottom stand-off (U): 200 mm
Nameplate: Stainless steel laser printed
Includes Bottom: Mag Trap
-316ss/ CS construction
-316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
-Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
Location of secondary chamber: 3 o'clock (right side of MLG chamber)
Process connection GT: CS Flange ASME B16.5 2" 300# Form RF
Distance between chambers center lines: 200 mm
Radar connection stand-off: 254 mm
Side chamber bottom stand-off: 254 mm
Insertion external sensor: With
MRF-M762
Level Indicator for Magnetic Level Gauge Type BMD-FA
Measuring range: 762 mm
Housing material: Aluminum anodized
Indicating elements: Stainless steel flaps Red & white
Graduated scale: Aluminum engraved Graduation unit: inch

w/ RADAR Transmitter FX81.FADACDHXANAM

eID: US34249513
TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA
Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
Version / Material D : Exchangeable cable (ø2mm) with centering weight /
316 Probe : mounted
Length (from seal surface) : 48.000 inch
Length of rigid part : 3.937 inch
Dimensions centering weight (diameter / height)
1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160)
Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 /
316/316L Seal / Second line of defense /
Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C
Electronics H : Two-wire 4 ... 20 mA/HART
Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC ,
Model USB63-48.N
Housing / Protection A : Aluminium single chamber / IP66/IP68 (0.2bar)
Cable entry / Connection N : ½NPT / Blind plug
Display/Adjustment module PLICSCOM A : mounted
Certificates M : Yes
Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE
MR0175 + NACE MR0103)
PMI test : RFA (positive material identification) incl. 3.1 inspection certificate
Supply certificates : with goods
Measurement loop identification label : of Stainless Steel
Customer-specific adjustment : Yes
Unit : inch

			- 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 40.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
27.1	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2286-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H Tag: 18-LIT-043 SAP 1138080 Magnetic Level Gauge Type BNA-SD00 Pressure: 180 psi ; Temp.: 14°F...185 °F; Fluid density: 649 -665 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 381 mm Measuring range: 381 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 220 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M2286 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 2286 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch *Included 1" Insulation Blanket" w/RADAR Transmitter FX81.FADACDHXANAM eID: US34258340 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 32.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N	\$21,112.00	\$21,112.00

			Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 100.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
27.2	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2286-L/CS 60x2.77/60x2.77-MRF-ZVSS185/PN25/R48H Tag: 18-LIT-203 SAP 1138080 Magnetic Level Gauge Type BNA-SD00 Pressure: 180 psi ; Temp.: 14°F...205 °F; Fluid density: 1030 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 2286 mm Measuring range: 2286 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 220 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M2286 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 2286 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX81.FADACDHXANAM eID: US34258340 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight /	\$68,560.00	\$68,560.00

			316 Probe : mounted Length (from seal surface) : 108.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 100.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
28	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M4775-L/CS 60x2.77/60x2,77-MRF-ZTS440/PN25/A110 Tag:18-LIT-121 SAP 1138081 Magnetic Level Gauge Type BNA-SD00 Pressure: 200 psi ; Temp.: 14°F...500 °F; Fluid density: 520 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 4775 mm Measuring range: 4775 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS440/PN25/A110 Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 500 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M4775 Level Indicator for Magnetic Level Gauge Type BMD-FA	\$68,560.00	\$68,560.00

			Measuring range: 4775 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> W/RADAR Transmitter FX86.FADAC1HXANAM eID: US34279971 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 206.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : Ceramic graphite / with / -196...+280°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 198.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6		
29.1	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1016-L/CS 60x2.77/60x2,77-MRF-ZTS300/PN25/R48H-INTF Tag: 12-LIT-516 SAP 1138082 Magnetic Level Gauge Type BNA-SD00 Pressure: 150 psi ; Temp.: 14°F...200 °F; Fluid density: 540 - 560 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1016 mm Measuring range: 1016 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS300/PN25/R48H-INTF Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 200 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug	\$25,312.00	\$25,312.00

			Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1016 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1016 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/Radar Transmitter FX81.FADACDHXANAM eID: US34275800 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 58.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 50.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
29.2	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1016-L/CS 60x2.77/60x2,77-MRF-ZTS300/PN25/R48H-INTF Tag: 12-LIT-697, 12-LI-698 SAP 1138082 Magnetic Level Gauge Type BNA-SD00 Pressure: 150 psi ; Temp.: 14°F...150 °F; Fluid density: 710 / 990- 1000 kg/m³ Service: INTERFACE Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1016 mm Measuring range: 1016 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS300/PN25/R48H-INTF	\$32,704.00	\$32,704.00

			Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 200 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1016 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1016 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/Radar Transmitter FX81.FADACDHXANAM eID: US34275800 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 58.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 50.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
30	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M3658-L/CS 60x2.77/60x2,77-MRF-ZVSS275/PN25/R48H Tag:12-LIT-707 SAP 1138083 Magnetic Level Gauge Type BNA-SD00 Pressure: 100 psi ; Temp.: 14°F...155 °F; Fluid density: 710 - 1000 kg/m³ Service: TOTAL Level Design code: ASME B31.3	\$32,704.00	\$32,704.00

Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
 Duo stainless steel 316/316L (EN 1.4401/1.4404)
 Process connection: CS Flange ASME B16.5 2" 300# Form RF
 Distance C-to-C: 3658 mm
 Measuring range: 3658 mm
 Chamber end top: Pipe cap
 Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF
 Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4"
 Float: ZVSS275/PN25/R48H
 Dampening element: Dampening spring, bottom, with cover
 Gasket(s): Spiral wound type, SS 316L/Graphite
 Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG
 Top stand-off (T): 100 mm
 Bottom stand-off (U): 320 mm
 Nameplate: Stainless steel laser printed
 Includes Bottom: Mag Trap
 -316ss/ CS construction
 -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
 -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
 Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
 Location of secondary chamber: 3 o'clock (right side of MLG chamber)
 Process connection GT: CS Flange ASME B16.5 2" 300# Form RF
 Distance between chambers center lines: 200 mm
 Radar connection stand-off: 254 mm
 Side chamber bottom stand-off: 254 mm
 Insertion external sensor: With
 MRF-M3658
 Level Indicator for Magnetic Level Gauge Type BMD-FA
 Measuring range: 3658 mm
 Housing material: Aluminum anodized
 Indicating elements: Stainless steel flaps Red & white
 Graduated scale: Aluminum engraved Graduation unit: inch

w/RADAR Transmitter FX81.FADACDHXANAM

eID: US34276188
 Scope F : USA
 Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
 Version / Material D : Exchangeable cable (ø2mm) with centering weight /
 316 Probe : mounted
 Length (from seal surface) : 162.000 inch
 Length of rigid part : 3.937 inch
 Dimensions centering weight (diameter / height)
 : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160)
 Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 /
 316/316L Seal / Second line of defense /
 Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C
 Electronics H : Two-wire 4 ... 20 mA/HART
 Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC ,
 Model USB63-48.N
 Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar)
 Cable entry / Connection N : ½NPT / Blind plug
 Display/Adjustment module PLICSCOM A : mounted
 Certificates M : Yes
 Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE
 MR0175 + NACE MR0103)
 PMI test : RFA (positive material identification) incl. 3.1 inspection certificate
 Supply certificates : with goods
 Measurement loop identification label : of Stainless Steel
 Customer-specific adjustment : Yes
 - Unit : inch
 - 100 % (distance from seal surface) : 10.000 inch
 - 0 % (distance from seal surface) : 154.000 inch
 Linearization : No
 Min. process pressure in bar : -1.000
 Max. process pressure in bar : 40.0

31	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1829-L/CS 60x2.77/60x2,77-MRF-ZVSS185/PN25/R48H Tag:12-U-715 SAP 1138084 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...150 °F; Fluid density: 1200 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1829 mm Measuring range: 1829 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS185/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 220 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1829 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1829 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM eID: US34257758 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 90.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate	\$27,440.00	\$27,440.00
----	---	-----	---	-------------	-------------

			Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 82.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
32	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1473-L/CS 60x2.77/60x2.77-MRF-ZVSS300/PN25/R48H Tag:12-LIT-336, 12-LIT-335 SAP 1138085 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...155 °F; Fluid density: 740 / 990 kg/m³ Service: INTERFACE Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1473 mm Measuring range: 1473 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS300/PN25/R48H-INTF Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 340 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2.77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1473 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1473 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM eID: US34276673 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 76.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C	\$26,752.00	\$53,504.00

			Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 68.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
33	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M356-L/CS 60x2.77/60x2.77-MRF-ZVSS300/PN25/R48H-INTF Tag:12-LIT-695 SAP 1138086 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...155 °F; Fluid density: 710 - 730 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 356 mm Measuring range: 356 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS300/PN25/R48H-INTF Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 340 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M356 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 356 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM eID: US34257952 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG	\$23,184.00	\$23,184.00

			Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 32.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 24.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
34	2	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M356-L/CS 60x2.77/60x2,77-MRF-ZVSS300/PN25/R48H-INTF Tag:12-LIT-425, 12-LIT-426 SAP 1138087 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...650 °F; Fluid density: 830 / 980 kg/m³ Service: INTERFACE Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 356 mm Measuring range: 356 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS300/PN25/R48H-INTF Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 340 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M356	\$28,752.00	\$57,504.00

			Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 356 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX86.FADAC2HXANAM eID: US34276964 TDR sensor for continuous level and INTERFACE measurement of liquids Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 32.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter/height) 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature : Ceramic graphite / with / -196 ... +450°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 24.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6		
35	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1626-L/CS 60x2.77/60x2.77-MRF-ZVSS275/PN25/R48H Tag:12-LIT-660 SAP 1138088 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...160 °F; Fluid density: 740 - 1000 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1626 mm Measuring range: 1626 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS275/PN25/R48H Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 300 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug	\$26,920.00	\$26,920.00

			Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1626 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1626 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch W/RADAR Transmitter FX81.FADACDHXANAM eID: US34275994 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 82.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 74.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
36	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M1143-L/CS 60x2.77/60x2,77-MRF-ZVSS275/PN25/R48H Tag:12-LIT-338 SAP 1138089 Magnetic Level Gauge Type BNA-SD00 Pressure: 50 psi ; Temp.: 14°F...155 °F; Fluid density: 740 - 750 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S) Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 300# Form RF Distance C-to-C: 1143 mm Measuring range: 1143 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZVSS275/PN25/R48H Dampening element: Dampening spring, bottom, with cover	\$25,264.00	\$25,264.00

			Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 300 mm Nameplate: Stainless steel laser printed Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 300# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 300# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M1143 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 1143 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch w/RADAR Transmitter FX81.FADACDHXANAM eID: US34277934 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material D : Exchangeable cable (ø2mm) with centering weight / 316 Probe : mounted Length (from seal surface) : 45.000 inch Length of rigid part : 3.937 inch Dimensions centering weight (diameter / height) : 1.77in / 1.18in (for 2" Schedule 40/80 and 3" Schedule 80/160) Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature D : FFKM (Kalrez 6375) / without / -20...+150°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 10.000 inch - 0 % (distance from seal surface) : 55.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 40.0		
37	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/600/RF-M533-L/CS 60x3.91/60x3.91-MRF-ZTS45/360/PN51/A125 Tag:12-LI-375 SAP 1138090 Magnetic Level Gauge Type BNA-SD00 Pressure: 737 psi ; Temp.: 14°F...750 °F; Fluid density: 860 – 1000 kg/m³ Service: TOTAL Level Design code: ASME B31.3 Chamber dimensions: OD 60.3 x 3.91 mm (2" Sch. 40S)	\$43,568.00	\$43,568.00

			Duo stainless steel 316/316L (EN 1.4401/1.4404) Process connection: CS Flange ASME B16.5 2" 600# Form RF Distance C-to-C: 533 mm Measuring range: 533 mm Chamber end top: Pipe cap Chamber end bottom: CS Flange ASME B16.5 2" 600# Form RF Vent connection: Butt weld end 3/4" Drain connection: Butt weld end 3/4" Float: ZTS45/360/PN51/A125 Dampening element: Dampening spring, bottom, with cover Gasket(s): Spiral wound type, SS 316L/Graphite Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG Top stand-off (T): 100 mm Bottom stand-off (U): 400 mm Includes Bottom: Mag Trap -316ss/ CS construction -316SS 2" x 2" Tee with 2" CS 600# RFWN Flange -Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug Dual Chamber (DUplus) Sidechamber: OD 60.3 x 3,91 mm (2" Sch. 40S) Location of secondary chamber: 3 o'clock (right side of MLG chamber) Process connection GT: CS Flange ASME B16.5 2" 600# Form RF Distance between chambers center lines: 200 mm Radar connection stand-off: 254 mm Side chamber bottom stand-off: 254 mm Insertion external sensor: With MRF-M533 Level Indicator for Magnetic Level Gauge Type BMD-FA Measuring range: 533 mm Housing material: Aluminum anodized Indicating elements: Stainless steel flaps Red & white Graduated scale: Aluminum engraved Graduation unit: inch <u>INCLUDES INSULATION JACKET</u> w/RADAR Transmitter FX86.FA4AL2HXANAM eID: US34278807 Scope F : USA Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG Version / Material 4 : Coax (ø42.2mm) with multiple hole and reference distance / 316L Length (from seal surface) : 29,53" Process fitting / Material AL : Flange 2" 600lb RF, ASME B16.5 / 316/316L Seal / Second line of defense / Process temperature: Ceramic graphite / with / -196 ... +450°C Electronics H : Two-wire 4 ... 20 mA/HART Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC , Model USB63-48.N Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar) Cable entry / Connection N : ½NPT / Blind plug Display/Adjustment module PLICSCOM A : mounted Certificates M : Yes Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE MR0175 + NACE MR0103) PMI test : RFA (positive material identification) incl. 3.1 inspection certificate Supply certificates : with goods Measurement loop identification label : of Stainless Steel Customer-specific adjustment : Yes - Unit : inch - 100 % (distance from seal surface) : 38.000 inch - 0 % (distance from seal surface) : 59.000 inch Linearization : No Min. process pressure in bar : -1.000 Max. process pressure in bar : 99.3		
38	1	Eqp	WIKA DUAL CHAMBER LEVEL SYSTEM – Redundant BNA/DU-2"/300/RF-M2997-L/CS 60x2.77/60x2,77-MRF-ZTS240/PN25/A125 Tag:12-LI-432 SAP 1138091	\$40,456.00	\$40,456.00

Magnetic Level Gauge Type BNA-SD00
Pressure: 50 psi ; Temp.: 14°F...650 °F; Fluid density: 980 kg/m³
Service: TOTAL Level
Design code: ASME B31.3
Chamber dimensions: OD 60.3 x 2.77 mm (2" Sch. 10S)
Duo stainless steel 316/316L (EN 1.4401/1.4404)
Process connection: CS Flange ASME B16.5 2" 300# Form RF
Distance C-to-C: 2997 mm
Measuring range: 2997 mm
Chamber end top: Pipe cap
Chamber end bottom: CS Flange ASME B16.5 2" 300# Form RF
Vent connection: Butt weld end 3/4"
Drain connection: Butt weld end 3/4"
Float: ZTS240/PN25/A125
Dampening element: Dampening spring, bottom, with cover
Gasket(s): Spiral wound type, SS 316L/Graphite
Bolting: UNC series, carbon steel A193 Gr. B7 HDG / A194 Gr. 2H HDG
Top stand-off (T): 100 mm
Bottom stand-off (U): 300 mm
Nameplate: Stainless steel laser printed
Includes Bottom: Mag Trap
-316ss/ CS construction
-316SS 2" x 2" Tee with 2" CS 300# RFWN Flange
-Bottom: CS 2" 300# RFWN with blind mating flange & 1/2" NPT Drain and Plug

Dual Chamber (DUplus)
Sidechamber: OD 60.3 x 2,77 mm (2" Sch. 10S)
Location of secondary chamber: 3 o'clock (right side of MLG chamber)
Process connection GT: CS Flange ASME B16.5 2" 300# Form RF
Distance between chambers center lines: 200 mm
Radar connection stand-off: 254 mm
Side chamber bottom stand-off: 254 mm
Insertion external sensor: With
MRF-M2997
Level Indicator for Magnetic Level Gauge Type BMD-FA
Measuring range: 2997 mm
Housing material: Aluminum anodized
Indicating elements: Stainless steel flaps Red & white
Graduated scale: Aluminum engraved Graduation unit: inch

w/RADAR Transmitter FX86.FA4AC2HXANAM
eID: US34279195
Scope F : USA
Approval A : FM (NI) CL I, II, III DIV2, GP ABCDFG
Version / Material 4 : Coax (ø42.2mm) with multiple hole and reference distance / 316L
Length (from seal surface) : 138.000 inch
Process fitting / Material AC : Flange 2" 300lb RF, ASME B16.5 /
316/316L Seal / Second line of defense /
Process temperature : Ceramic graphite / with / -196 ... +450°C
Electronics H : Two-wire 4 ... 20 mA/HART
Supplementary electronics X : with Overvoltage protection of the supply cable 24 VDC ,
Model USB63-48.N
Housing / Protection A : Aluminum single chamber / IP66/IP68 (0.2bar)
Cable entry / Connection N : ½NPT / Blind plug
Display/Adjustment module PLICSCOM A : mounted
Certificates M : Yes
Certificate / Standard : (C) Material test report – traceable (EN 10204 type 3.1 + NACE
MR0175 + NACE MR0103)
PMI test : RFA (positive material identification) incl. 3.1 inspection
certificate
Supply certificates : with goods
Measurement loop identification label : of Stainless Steel
Customer-specific adjustment : Yes

- Unit : inch
- 100 % (distance from seal surface) : 38.000 inch
- 0 % (distance from seal surface) : 156.000 inch

Linearization : No



INDUSTRIAL BUSINESS INTL CORP

1580 Sawgrass Corporate Parkway
Suite 130, Sunrise, FL 33323
Tel: 954-302-3187, 315-4781
Fax: 954-838-7746
E-mail: ibicorp@intech-ie.com

			Min. process pressure in bar : -1.000 Max. process pressure in bar : 49.6		
			Technical Notes Included on each System: - Approval Drawings - Hydrostatic Pressure Test 1.5x Flange Rating for 10 min @ ambient - NACE MR0175 Certificate - Material Test Reports with Tagging Information on each - Positive Material Identification w/o Carbon Content (10) shots per unit - 100% Xray - Liquid Dye Penetrant - Package/ Handling (per Lot)		
			Delivery Time 20 – 24 weeks ARAD and payment of 1 st milestone Progressive Partial Shipments Allowed Payment Terms 50% with Your Order 50% with Shipment from Manufacturer to Venezuelan Port Volume & Weight Weight and Volume to be advised IPPC Stamped Sea Freight Export Wood Crate Cci: Williams Brito – INTECH Lecherias		

PLEASE TRANSFER TO OUR ACCOUNT AT:

Branch Banking & Trust Co.
450 North Pine Island
Plantation, FL 33324
Account #: 0140953040
ABA# 053-101-121
Routing/Transit Number: 2631-9138-7
Swift Code: BRBTUS33

THANK YOU FOR YOUR BUSINESS

Subtotal	US \$	\$1,949,528.00
Freight	US \$	-
Insurance	US \$	-
Docs.	US \$	-
TOTAL	US \$	\$1,949,528.00