

Instrumentos y Equipos C.A

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INTECH Instrumentos y Equipos C.A.

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RIF J-30615033-1

Quote # **C-2025-0079**
Date: **25/02/2025**
Customer ID **Staatsolie**

Bill to:
<p>Staatsolie Tout Lui Faut Refinery Sr. Winston Churchillweg 309 P.O. Box 1865 Wanica, Suriname Attn: Maracella R. Jokhoe Supply Chain Management Downstream T: +597 480501 ext. 62993 F: +597 480811 M.: +597 8560884 E: majokhoe@staatsolie.com</p>

Ship to:
<p>Staatsolie Tout Lui Faut Refinery Paramaribo, Suriname</p>

Sales Rep.	Your #	Reference #	Destiny	Terms	Validity
N. Carricatti	Email	C-2025-0042/PLQ-223446	Suriname	See below	30 days

Item	Cant	Description	Unit Price US\$	Total US\$
		Configuration for the following questionnaires (Tmax < 500°C): H-1601 // H-2601 // H-5001 // H-5304 // H-8302		
1	5	<p>COMTEC O2/COe PROBE WITH TEST GAS VALVE SINTERED METAL FILTER & PROTECT. TUBE, ENOTEC PN KEX6A113D1AS</p> <p>Probe Probe type: KEX-6A01 Insertion depth: 403 mm Filter unit: sintered metal filter incl. flame arrestor Test gas shut-off: test gas valve, material: V4A ATEX marking: II 2G Ex db IIC T3 Gb IP code terminal box: IP66 (colour: RAL 6029) Probe material: stainless steel (SS316) Protection tube material: stainless steel (SS316) Protection tube flange: ANSI 4" 150 lbs FF Flue gas temp. continuous: 500 °C limit due to T3-certificate Ambient temperature: -40 °C to +70 °C Flue gas pressure: +/-50 mbar (atmospheric pressure) Flue velocity: 0-10 m/s</p> <p>MXP COe sensor Measuring range COe: 1 range, min.: 0-1000 ppm / max.: 0-5000 ppm (factory adjustable, other ranges on request) Measurement accuracy COe: < 5.0 % of range end Measuring principle: MXP sensor for COe/Combustibles</p> <p>MLT O2 sensor Response time: < 1 s (with test gas)</p>	\$16.423,00	\$82.115,00

		<p>T-90-time: < 5 s (with test gas) Measurement accuracy O₂: < 0.5 % of measured value or 0.02 Vol. % O₂ (higher value valid) Measuring principle: Zirconium oxide Sensor temperature: 800 °C The multi-layer MLT protective coatings extend the life of the oxygen sensor, especially in flue gases containing SO₂ and CO. Dust particles which pass through the probe's diffusion filter to the O₂ sensor are largely kept away from the active platinum electrode of the O₂ sensor by these protective layers.</p> <p>Notice ENOTEC InSitu analyzers measure O₂ molecules direct in the flue gas of combustion plants or in comparable inert gas mixtures. If oxidizable gas components are contained in this gas mixture, contact ENOTEC.</p> <p><i>Other specifications on request!</i></p>		
2	5	<p>COMTEC ELECTRONIC WITH HART INTERFACE ATEX II 2G Ex d IIC T6 Gb (2 HOUSINGS), ENOTEC PN SME-5D1F7M00</p> <p>Unit housing SME-5D: 2 cast aluminum field housings with windows, mounted on rails; RAL 6029 Protection: IP66 ATEX marking: ATEX II 2GD Ex d IIC T6 Gb IECEx marking: Ex db IIC T6 Gb Dimensions: approx. 356x700x249 mm (HxWxD) Weight: approx. 35 kg, depending on options up to 36 kg Line voltage: 115 V AC • } 10 %, f = 50/60Hz Heater voltage: 115 V AC Ambient temperature: -20 °C to +55 °C Sensor signal value memory: on and off switchable, active during calibration O₂ output: configurable 0/4-20 mA, active (source), galvanically isolated, 500 Ω max. COe output: 4-20 mA, active (source), galvanically isolated, 500 Ω max. Relays output: system failure, maintenance, solenoid valve probe, measuring ranges: 1 limit value each for O₂ and COe (<i>alternatively assignable by factory on request</i>) Digital input: calibration release, O₂ measuring range selection (<i>alternatively assignable by factory on request</i>) LED status indicators: alarm, error and maintenance Calibration: 1-point with instrument air or 2-point with air and test gas bottle by external supply and piping Automatic calibration*: execution by time interval (1-90 days) or by external release signal Pneumatic integrated (option): flow monitoring for test gas and reference air, automatic apply of test air and test gas on calibration, requires on-site instrument air and test gas supply of the electronics Interface: ENOTEC REMOTE, HART Operation: keypad, soft keys, menu-driven, self-explanatory LC-display Language: English/German</p> <p>Failsafe heater control (HCU - 0001) ATEX approved failsafe heater shut down, if the sensor temperature exceeds the set point for the internal probe heater to guarantee the probe temperature class T3.</p> <p>COMTEC MXP sensor board</p>	\$20.415,00	\$102.075,00

		<p>Upgrade of the SME-5D electronic unit for the measurement of the signals from the InSitu CO_e sensor. The CO_e output signal is a trend signal for the plausibility check of the O₂ signal. An increase of O₂ signals will cause a decrease of the CO_e signal and vice versa. The CO_e sensor response test can be done with a test gas, which does contain CO. Depending on the flue gas composition the test gas must contain SO₂ as well for cross sensitivity compensation.</p> <p><i>* Pneumatic unit required. Other specifications on request!</i></p>		
3	5	<p>SME-5D TEST GAS AND REFERENCE AIR SUPPLY FOR INSTRUMENT AIR, EEx d SYSTEMS, ENOTEC PN SME-5000030</p> <p>SME-5D test gas and reference air supply for instrument air, EEx d systems The pneumatic unit in a separate field case can be installed beside the electronic unit and is suitable for customers instrument air. The installed flow meters, for reference air and test air (test gas), allow gas flow control during semi automatic calibration of the <i>ENOTEC</i> analyzer.</p> <p>Technical data :</p> <p>Protection: IP 66 Material: steel sheet case Dimensions: approx. 400x300x210 mm (HxWxD) Weight: approx. 4 kg Colour: RAL 6029 green Connection: 1/4 " clamping ring Air pressure: 2 - 10 bar Air quality: dry and oil-free, -40 °C dew point Air volume: 30 l/h (measuring); 100 l/h (calibration) Test gas pressure: 0.5 to 3.0 bar</p>	\$2.872,00	\$14.360,00
4	180	<p>PROBE CABLE COMTEC, OXITEC / COMTEC ATEX CONNECTION PROBE <> ELECTRONIC UNIT, ENOTEC PN FEP-0007</p> <p>The probe signal cable is a special cable supplied by ENOTEC to transmit the sensor signals, the signals of the thermocouple and the probe heater voltages between probe and electronic unit. Cable insulation is ultra violet resistant and flame resistant.</p>	\$60,00	\$10.800,00
5	5	<p>2 pcs. COMTEC CABLE GLAND RESIN 3/4" NPT, CABLE: FEP-0007, ENOTEC PN FEP-0007-CC2</p>	\$388,00	\$1.940,00
6	180	<p>ENOTEC PROBE PNEUMATIC CABLE CONNECTION PROBE <> ELECTRONIC UNIT, ENOTEC PN FEP-0002</p> <p>The ENOTEC pneumatic cable is a special double pneumatic hose (2x6x1 mm) to transport the reference air and, if required the test gas to the probe. Max. distance between probe and electronic 150 m for pneumatic units using customer instrument air supply, or max. 50 m for internal pump versions. Cable</p>	\$29,00	\$5.220,00

		insulation is flame retardant and UV-resistant.		
7	5	COUNTER FLANGE ANSI 4" 150 lbs S235JR TUBE: WITHOUT, INNER DIAMETER: 90,0 mm, ENOTEC PN ADP-6000	\$359,00	\$1.795,00
		Configuration for the following questionnaires (Tmax over 500°C): H-3001 (cooling tube of 1 meter) H-3002 (cooling tube of 0,5 meters)		
8	2	<p>COMTEC O2/COe PROBE WITH TEST GAS VALVE SINTERED METAL FILTER & PROTECT. TUBE, ENOTEC PN KEX6A113D1AS</p> <p>Probe Probe type: KEX-6A01 Insertion depth: 403 mm Filter unit: sintered metal filter incl. flame arrestor Test gas shut-off: test gas valve, material: V4A ATEX marking: II 2G Ex db IIC T3 Gb IP code terminal box: IP66 (colour: RAL 6029) Probe material: stainless steel (SS316) Protection tube material: stainless steel (SS316) Protection tube flange: ANSI 4" 150 lbs FF Flue gas temp. continuous: 500 °C limit due to T3-certificate Ambient temperature: -40 °C to +70 °C Flue gas pressure: +/-50 mbar (atmospheric pressure) Flue velocity: 0-10 m/s</p> <p>MXP COe sensor Measuring range COe: 1 range, min.: 0-1000 ppm / max.: 0-5000 ppm (factory adjustable, other ranges on request) Measurement accuracy COe: < 5.0 % of range end Measuring principle: MXP sensor for COe/Combustibles</p> <p>MLT O2 sensor Response time: < 1 s (with test gas) T-90-time: < 5 s (with test gas) Measurement accuracy O2: < 0.5 % of measured value or 0.02 Vol. % O2 (higher value valid) Measuring principle: Zirconium oxide Sensor temperature: 800 °C The multi-layer MLT protective coatings extend the life of the oxygen sensor, especially in flue gases containing SO2 and CO. Dust particles which pass through the probe's diffusion filter to the O2 sensor are largely kept away from the active platinum electrode of the O2 sensor by these protective layers.</p> <p>Notice ENOTEC InSitu analyzers measure O2 molecules direct in the flue gas of combustion plants or in comparable inert gas mixtures. If oxidizable gas components are contained in this gas mixture, contact ENOTEC.</p> <p><i>Other specifications on request!</i></p>	\$16.423,00	\$32.846,00
9	1	KES/KEX-6001 PROTEC COOLING TUBE INSERT. d.: 500 mm, TEMP. UP TO 1400 °C, ENOTEC PN KSR-600105000A	\$4.034,00	\$4.034,00

		<p>The PROTEC cooling tube cools down the flue gas below 500 °C so that a standard ENOTEC InSitu probe can be used.</p> <p>Probe type: KES/KEX-6001 Length: 500 mm insertion depth, 900 mm outside Material: PROTEC in the process, stainless steel (SS316) outside Flange: ANSI 4" 150 lbs FF Flue gas temperature max.: 1400 °C</p>		
10	1	<p>KES/KEX-6001 PROTEC COOLING TUBE INSERT. d.: 1000 mm, TEMP. UP TO 1400 °C, ENOTEC PN KSR-600110000A</p> <p>The PROTEC cooling tube cools down the flue gas below 500 °C so that a standard ENOTEC InSitu probe can be used.</p> <p>Probe type: KES/KEX-6001 Length: 1000 mm insertion depth, 900 mm outside Material: PROTEC in the process, stainless steel (SS316) outside Flange: ANSI 4" 150 lbs FF Flue gas temperature max.: 1400 °C</p>	\$5.041,00	\$5.041,00
11	2	<p>COMTEC ELECTRONIC WITH HART INTERFACE ATEX II 2G Ex d IIC T6 Gb (2 HOUSINGS), ENOTEC PN SME-5D1F7M00</p> <p>Unit housing SME-5D: 2 cast aluminum field housings with windows, mounted on rails; RAL 6029 Protection: IP66 ATEX marking: ATEX II 2GD Ex d IIC T6 Gb IECEx marking: Ex db IIC T6 Gb Dimensions: approx. 356x700x249 mm (HxWxD) Weight: approx. 35 kg, depending on options up to 36 kg Line voltage: 115 V AC • } 10 %, f = 50/60Hz Heater voltage: 115 V AC Ambient temperature: -20 °C to +55 °C Sensor signal value memory: on and off switchable, active during calibration O₂ output: configurable 0/4-20 mA, active (source), galvanically isolated, 500 Ω max. CO_e output: 4-20 mA, active (source), galvanically isolated, 500 Ω max. Relays output: system failure, maintenance, solenoid valve probe, measuring ranges: 1 limit value each for O₂ and CO_e (<i>alternatively assignable by factory on request</i>) Digital input: calibration release, O₂ measuring range selection (<i>alternatively assignable by factory on request</i>) LED status indicators: alarm, error and maintenance Calibration: 1-point with instrument air or 2-point with air and test gas bottle by external supply and piping Automatic calibration*: execution by time interval (1-90 days) or by external release signal Pneumatic integrated (option): flow monitoring for test gas and reference air, automatic apply of test air and test gas on calibration, requires on-site instrument air and test gas supply of the electronics Interface: ENOTEC REMOTE, HART Operation: keypad, soft keys, menu-driven, self-explanatory LC-display Language: English/German</p>	\$20.415,00	\$40.830,00

		<p>Failsafe heater control (HCU - 0001) ATEX approved failsafe heater shut down, if the sensor temperature exceeds the set point for the internal probe heater to guarantee the probe temperature class T3.</p> <p>COMTEC MXP sensor board Upgrade of the SME-5D electronic unit for the measurement of the signals from the InSitu CO_e sensor. The CO_e output signal is a trend signal for the plausibility check of the O₂ signal. An increase of O₂ signals will cause a decrease of the CO_e signal and vice versa. The CO_e sensor response test can be done with a test gas, which does contain CO. Depending on the flue gas composition the test gas must contain SO₂ as well for cross sensitivity compensation.</p> <p><i>* Pneumatic unit required. Other specifications on request!</i></p>		
12	2	<p>SME-5D TEST GAS AND REFERENCE AIR SUPPLY FOR INSTRUMENT AIR, EEx d SYSTEMS, ENOTEC PN SME-5000030</p> <p>SME-5D test gas and reference air supply for instrument air, EEx d systems The pneumatic unit in a separate field case can be installed beside the electronic unit and is suitable for customers instrument air. The installed flow meters, for reference air and test air (test gas), allow gas flow control during semi automatic calibration of the <i>ENOTEC</i> analyzer.</p> <p>Technical data :</p> <p>Protection: IP 66 Material: steel sheet case Dimensions: approx. 400x300x210 mm (HxWxD) Weight: approx. 4 kg Colour: RAL 6029 green Connection: 1/4 " clamping ring Air pressure: 2 - 10 bar Air quality: dry and oil-free, -40 °C dew point Air volume: 30 l/h (measuring); 100 l/h (calibration) Test gas pressure: 0.5 to 3.0 bar</p>	\$2.872,00	\$5.744,00
13	35	<p>PROBE CABLE COMTEC, OXITEC / COMTEC ATEX CONNECTION PROBE <> ELECTRONIC UNIT, ENOTEC PN FEP-0007</p> <p>The probe signal cable is a special cable supplied by ENOTEC to transmit the sensor signals, the signals of the thermocouple and the probe heater voltages between probe and electronic unit. Cable insulation is ultra violet resistant and flame resistant.</p>	\$60,00	\$2.100,00
14	2	<p>2 pcs. COMTEC CABLE GLAND RESIN 3/4" NPT, CABLE: FEP-0007, ENOTEC PN FEP-0007-CC2</p>	\$388,00	\$776,00
15	35	<p>ENOTEC PROBE PNEUMATIC CABLE CONNECTION PROBE <> ELECTRONIC UNIT, ENOTEC PN FEP-0002</p>	\$29,00	\$1.015,00

		The ENOTEC pneumatic cable is a special double pneumatic hose (2x6x1 mm) to transport the reference air and, if required the test gas to the probe. Max. distance between probe and electronic 150 m for pneumatic units using customer instrument air supply, or max. 50 m for internal pump versions. Cable insulation is flame retardant and UV-resistant.		
16	2	COUNTER FLANGE ANSI 4" 150 lbs S235JR TUBE: WITHOUT, INNER DIAMETER: 90,0 mm, ENOTEC PN ADP-6000	\$359,00	\$718,00
17	1	<p>SYSTEM FACTORY ACCEPTANCE TEST (FAT) LOCATION: MARIENHEIDE, GERMANY (2 PEOPLE) PN S-FAT-01</p> <p>The factory acceptance test (FAT) takes place at the ENOTEC factory in Marienheide, Germany. A workday (8 hours) is set as standard for the FAT for a system with accessories. The test includes the function test of one system. Included in the daily rate are catering costs at ENOTEC for 2 PEOPLE.</p> <p><u>Not included are costs for travel and accomodation which may be incurred by the FAT on the customer side</u></p>	<u>INCLUDED</u>	<u>INCLUDED</u>
		<p>Delivery time</p> <p>After receive your order and payment, Items: 14-16 weeks</p> <p>The delivery time of the items offered is subject to changes generated by events outside the company's control, such as:</p> <ol style="list-style-type: none"> 1. Climatic phenomena that do not allow the transport of raw material to the factory, local transport abroad of the manufactured material and/or international transport of the product. 2. Normal functioning of Venezuelan and/or foreign customs. 3. Disruption of public order in the country of origin, country of transit and/or final country. 4. Criminal and/or terrorist acts. 5. Any other event considered force majeure. <p>Payment terms *Pre-payment 100% with purchase order</p> <p>Incoterms CIF – Paramaribo, Suriname</p> <p>Packing Material will be securely packed suitable for air freight and export.</p> <p>Volume & Weight Volume and weight TBD</p>		

		<p>PURCHASE ORDER ACCEPTANCE: Must include the following, drawings (when applicable), the following items must be received.</p> <ol style="list-style-type: none"> a. Purchase Order Number b. Complete Bill To Invoice Address / Instructions c. Contact name and number <p>CUSTOMS CLEARANCE All duties, taxes or fees associated with customs clearance are the responsibility of the consignee, unless specifically noted otherwise</p> <p>VAX TAXES ARE NOT INCLUDED</p> <p>WARRANTY TERMS (ENOTEC) The Place of warranty is Marienheide, Germany. Unless otherwise agreed separately in writing, the warranty condition which occurs first in time applies. Tear and wear parts are generally excluded from warranty, including:</p> <ul style="list-style-type: none"> • filter elements and seals for sample probes as well as fine dust filters • hoses of the peristaltic pump as well as hoses for disposal of the condensate • diaphragms and valves of the sample gas pumps • filter mats from cabinet fans and air inlet or outlet gratings • parts that come into contact with flue gas or other process gases <p>Important: Mechanical destruction is generally excluded from warranty.</p> <p>LIMITATION OF LIABILITY (ENOTEC) ENOTEC is not liable for normal wear and tear of the supplied equipment, for damages caused by the customer when further processing ENOTEC products, for improper storage, for damage resulting from improper installation and operation, or through lack of maintenance and damage caused by an alteration or repair not previously approved in writing by ENOTEC. ENOTEC shall not be liable for any damage or malfunction caused by the use of unauthorized software or unauthorized spare or replacement parts. Should costs arise from testing and addressing such deficiencies, these are to be paid by the customer at ENOTEC's request</p> <p>GENERAL (ENOTEC) In case there are technical problems relevant to the ENOTEC scope of supply, the customer must report this in writing within 24 hours after the disturbance with a detailed error description to ENOTEC. Furthermore ENOTEC must be granted the right to correct the deficiencies notified by the end customer within one week after receipt of the notice, when that communication about at side trouble does result in a failure in the ENOTEC scope of supply. All wear and tear parts, as specified by ENOTEC must be at side with the end user and all required maintenance, as specified in the ENOTEC documentation, must have been done and recorded by the customer or the end user accordingly. Delivery and services are carried out according to ENOTEC's specifications and conditions unless otherwise specified in written form in a supply contract. ENOTEC reserves the right to review the price and technical details of orders and to adapt them accordingly. The customer will be informed of any changes in writing by ENOTEC. All additional services provided, such as a commissioning by our service personnel will be invoiced separately. ENOTEC will not disclose or release the internal software source code or other intellectual properties to the customer or the end user. In the event of delay of the delivery ENOTEC is exempt of any type of penalties and claims for subsequent measures or subsequent damages. Customer-supplied general conditions of purchase are generally excluded. ENOTEC reserves the right to make technical changes to individual offered positions.</p>		
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Please Transfer to Account of:
Bank: Amerant Bank
Address: 220 Alhambra Circle, Coral Gables,
Florida 33134, USA
ABA: 067010509
Swift: MNBMUS33

Beneficiary: INTECH INSTRUMENTOS Y EQUIPOS
C.A.
Account # 8303790106

Subtotal	US\$	311,409.00
Freight	US\$	Included
Insurance	US\$	Included
Docs	US\$	Included
TOTAL	US\$	311,409.00