

# VARIO UXX EMISSION MONOTORING ANALYZER



7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com

# VARIO luxx EMI



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# VARIO/uxx

# **SEMI-CONTINUOUS EMISSION MONITORING SYSTEM**

Certified according to DIN EN 50379-1 and 50379-2 Complying with USEPA methods CTM-030 and CTM-034 and international ASTM D6522

Portable stack gas emission analyzer

for long time measurements of industrial combustions, large boilers, gas engines and turbines, furnaces and many more

## **BASIC CONFIGURATION & FUNCTIONS VARIO***luxx, with*:

Modern, rugged aluminum enclosure with rubber molded impact protection Linux OS & large, high-contrast and backlit 7" (840x480) graphical display Display with easy, intuitive touch panel and all measured data at one sight

Graphical data visualization, csv or pdf reporting file

Data transfer to PC over LAN Ethernet (RJ45 socket) or USB-stick

O2 measurement using either long-life electrochemical or paramagnetic cell

O2 referencing (normalization) to user settable value

Integrated, efficient electrical Peltier gas cooler with automatic

condensate draining pump

Strong, regulated sample gas pump and easy replaceable, effective PTFE filter

Automatic zeroing, using 3-way solenoid valve

Internal sample flow volume measurement

Automatic measurement incl. data logging function

10.000 data of internal data storage and large data storage

on external 4GB USB-stick (MRU design)

Automatic internal test and control of soft- and hardware functions

Zero gas (ambient air) inlet nozzle and separate passive VENT outlet nozzle for sample gas

Large fuel type list incl. self choose fuels with user definable parameters

Complete combustion calculation using country specific fuel type list

Stack gas temperature measurement up to 1.200°C (optional up to 1.700°C)

Differential pressure or stack gas pressure +/- 100 hPa

Combustion air temperature up to 500°C, using adequate NiCrNi probes

8 channel analog output 4-20mA and 4 channel analog input 4-20mA, standard double USB sockets

Universal analogue input (AUX socket) with 0-10 V or 4-20 mA signal or K-thermocouple or RS485

1 hour Li-Ion 48Wh battery stand-by operation, with power supply for gas cooler and heated probe filter

Universal power supply: mains 90-264 Vac/ 105 W (up to 600W with 5m heated sampling line)

Analyzer packed in soft padded nylon transport bag (8kg), all other accessories packed in separate soft transport bag (8kg)



- Pressure-/diff. Pressure
- Pressure-/diff. Pressure 2
- 3 Combustion air temperature
- 4 **AUX-port**
- 5 Probe electrical connector 6
- Outlet fan of gas cooler
- 7 Sample gas inlet
- Fresh air inlet port
- Sample gas outlet port (VENT)
- 10 Condensate outlet port
  - Sample gas filter



- Loudspeaker
- 13 Ethernet (LAN)
- USB socket
- 15 Second USB socket (option)
- 16 RS485 (option)
- 17 Analog outputs 4 ... 20 mA
- Mains power supply



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VARIO luxx E	EXX EMI Page: 3 of 5 Price list valid till: 12/31/2025								
VARIO luxx		WITH		QTY	Part No.	Unit price	Discount	Total Price	
	lyzer as described above, incl. <b>O2-LL ele</b>			1	944030	\$10,503.00	0%	\$10,503.00	
	·,					<b>¥</b> 20,000.00	• • • • • • • • • • • • • • • • • • • •	<b>¥20,000.00</b>	
VARIO luxx		WITH		QTY	Part No.	Unit price	Discount	Total Price	
VARIO LUXX basic ana	lyzer as described above, incl. O2-PM pa	aramagnetic cell		1	944040	\$21,136.00	0%	\$21,136.00	
SENSORS				QTY	Part No.	_	Discount	Total Price	
Sensor OPTION - CO	H2 compensated		om overload 20,000 ppm (*1)	1	10585	\$1,033.00	0%	\$1,033.00	
Sensor OPTION - NO	with calculated N	, , , , ,	om overload 5,000 ppm (*1)	1	10586	\$896.00	0%	\$896.00	
Sensor OPTION - NO2	For true NOx		om overload 1,000 ppm (*1)	1	10587	\$1,042.00	0%	\$1,042.00	
Sensor OPTION - SO2 Sensor OPTION - H2S			om overload 5,000 ppm (*1) om overload 5,000 ppm (*1)	1	10588 10547	\$1,042.00 \$1,118.00	0% 0%	\$1,042.00	
Sensor OPTION - CO V	ery High either H2S or CO			1	10547	\$1,118.00	0%	\$1,118.00 \$1,214.00	
	ximum overload range, suitable only fo	7 0	Overload 10% ( 1)		10330	\$1,214.00	0/8	31,214.00	
( 1) 11012.131110.	and overload range, suitable only to	i shore measuring time							
SENSOR-SOFTWA	ARE OPTIONS			QTY	Part No.	Unit price	Discount	Total Price	
SOFTWARE OPTION -	CO low	0 - 500 рр	om with 0.1ppm resolution	1	64779	\$265.00	0%	\$265.00	
SOFTWARE OPTION - I	NO low requires Part #: 63937	<b>NO Sensor</b> 0 - 300 pp	om with 0.1ppm resolution	1	64780	\$265.00	0%	\$265.00	
SOFTWARE OPTION - I	NO2 LOW requires Part #: 64111	<b>NO2 Sensor</b> 0 - 100 pp	om with 0.1ppm resolution	1	64781	\$265.00	0%	\$265.00	
SOFTWARE OPTION - S	SO2low requires Part #: 63990	<b>SO2 Sensor</b> 0 - 300 pp	om with 0.1ppm resolution	1	10546	\$265.00	0%	\$265.00	
PLEASE NOTE: THESE	ARE NOT separate sensors; these are st	andard sensors used with specia	I software options!						
INFRARED MODU	, ,	20.04	1 1400/	QTY	Part No.		Discount	Total Price	
NDIR - CO2	single gas NDIR	0 - 20 %	overload 40%	1	65684	\$2,001.00	0%	\$2,001.00	
INFRARED MODI	JLES (TRIPLE GAS NDIR)			QTY	Part No.	Unit price	Discount	Total Price	
NDIR Module	CO / CO2 / CxHy as CH4	0 1% up to 10%	0 5 up to 40%	1	10562	\$4,514.00	0%	\$4,514.00	
	(calibrated with CH4 = methane)	0 1% up to 4%	0 0 ap 10 10/2			¥ 1,02 1100	•/-	<i>ϕ 1,02 1.00</i>	
NDIR Module	CO / CO2 / CxHy as C3H8	0 1,000 up to 30,000 ppm	0 40%	1	10560	\$4,514.00	0%	\$4,514.00	
	(calibrated with C3H8 = propane)	0 1,000 up to 10,000 ppm				<u>'</u>			
NDIR Module	CO / CO2 / CxHy as CH4	0 1,000 up to 30,000 ppm 0 40%		1	10561	\$4,514.00	0%	\$4,514.00	
	(calibrated with CH4 = methane)	0 1,000 up to 10,000 ppm	l						
NDIR Module CO / CO2 / SO2		0 -1,00030,000ppm	0 -40.0%	1	13823	\$5,338.00	0%	\$5,338.00	
		0 -1,0004,000ppm							
	IONS and DOCUMENTATION	LI III DO SILVAS I	10	QTY	Part No.	•	Discount	Total Price	
MRU4win - "full" vers	1	10539	\$298.00	0%	\$298.00				
NOTE: "light" version is free of charge available on MRU website www.mru.eu  USB to Bluetooth converter set, wireless data transfer to PC / notebook with MRU4Win					12992	\$1,033.00	0%	\$1,033.00	
	ance wireless data transfer	1	12332	<b>\$2,033.00</b>	0,0	<b>V1,033.00</b>			
	r (dongle) for web browsing and wireless	1	10549	\$54.00	0%	\$54.00			
NOTE: order addition					<u> </u>				
RS485 interface with N	1	10557	\$117.00	0%	\$117.00				
NOTE: one twisted pa									
Measurement adapter cable - Analog I/O Safety tower connector to 4-20 mA, 25 D-SUB connector					13732	\$639.00	0%	\$639.00	
WLAN / USB printer wi	ith Li-Ion battery, 80mm paper width an	d separate battery charger		1	10872	\$518.00	0%	\$518.00	
CTOBA OF THE	TRANSPORTATION								
	TRANSPORTATION			QTY	Part No.	Unit price	Discount	Total Price	
Robust aluminum fram	1	11129	\$1,051.00	0%	\$1,051.00				
Adjustable shoulder st	1	59773 12996	\$26.00	0% 0%	\$26.00 \$726.00				
Waterproof transport	transport case, usable also for flight tra	nsportation		1	999-CASE NF	\$726.00 \$484.00	0%	\$0.00	
	case oft padded nylon case, for measuremen	ts even in rainy conditions		1	12458	\$484.00	0%	\$368.00	
	t of standard analyzer soft transport cas			Ç300.00	J/0	Ç300.00			
	<sup>7</sup> 2A / 25W , for trouble-free air transpor	1	12361	\$87.00	0%	\$87.00			
1		1							



NOTE: replacement of standard Li-lon battery

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# VARIO luxx EMI

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13445

\$1,223.00

0%



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with 9.84` (3.0 m) length heated Teflon hose and fast coupling to above gas sampling probe head 110VAC 11238-03US \$2,680.00 0% \$2,680.00 Heated sampling line - with 16.4° (5.0 m) length heated Teflon hose and fast coupling to above gas sampling probe head 110VAC 11238-05US \$3,146.00 0% \$3,146,00 Heated sampling line - with 9.84' (3.0 m) length heated Teflon hose and fast coupling to above gas sampling probe head 220VAC 11238-03 \$1,592.00 0% \$1,592.00 Heated sampling line - with 16.4` (5.0 m) length heated Teflon hose and fast coupling to above gas sampling probe head 220VAC 11238-05 \$2,040,00 0% \$2,040.00 1 **INDUSTRIAL GAS SAMPLING LINE** Discount QTY Part No. **Unit price Total Price** Heated gas sampling line, length 11m, for HPI probe, with temperature control and regulation by analyzer, Amplifier box and probe can be separated with quick coupling 14536-11 Heated sampling line - with 36` (11.0 m) length \$6.017.00 0% \$6.017.00 1 Heated sampling line - with 98` (30.0 m) length (this is the maximum length) 1 14536-30 \$10,276.00 0% \$10,276.00 INDUSTRIAL GAS SAMPLING PROBE - Additional probe tube needed (different le Discount **Total Price** QTY Part No. **Unit price** 12619-03 0% UN-heated sampling line - with 9.84` (3.0 m) length heated Teflon hose and fast coupling to gas sampling probe head HPI, \$757.00 \$757.00 UN-heated sampling line - with 16.4` (5.0 m) length heated Teflon hose and fast coupling to gas sampling probe head HPI, 12619-05 \$831.00 0% \$831.00 1 EXCHANGEABLE PROBE TUBE FOR INDUSTRIAL PROBE HANDLE (Cone is included) Discount **Total Price** QTY Part No. Unit price \$435.00 \$435.00 Exchangeable probe tube 12" x 0.5" 11620 0% High grade steel ≤ 1472°F (800°C) 1 (300 mm x 12 mm) \$515.00 20" x 0.5" 1 11640 \$515.00 0% Exchangeable probe tube (500 mm x 12 mm) High grade steel ≤ 1472°F (800°C) Exchangeable probe tube 30" x 0.5" High grade steel ≤ 1472°F (800°C) 1 11621 \$737.00 0% \$737.00 (750 mm x 12 mm) ≤ 1472°F (800°C) 11622 \$753.00 0% \$753.00 Exchangeable probe tube 40" x 0.5" (1000 mm x 12 mm) High grade steel Exchangeable probe tube 60" x 0.5" (1500 mm x 12 mm) High grade steel ≤ 1472°F (800°C) 1 11623 \$842.00 0% \$842.00 EXCHANGEABLE PROBE TUBE FOR INDUSTRIAL PROBE HANDLE (Cone is included) **Unit price** Discount **Total Price** QTY Part No Exchangeable probe tube 20" x 0.5" ≤ 2000°F (1100°C) 1 61827 \$1,649.00 0% \$1,649.00 (500 mm x 12 mm) \$1,679.00 \$1,679.00 Exchangeable probe tube 30" x 0.5" ≤ 2000°F (1100°C) 1 58076 0% (750 mm x 12 mm) Inconel Exchangeable probe tube 40" x 0.5 ≤ 2000°F (1100°C) 1 59552 \$1,618.00 0% \$1,618,00 Inconel (1000 mm x 12 mm) Exchangeable probe tube ≤ 2000°F (1100°C) 59904 \$3,250.00 0% \$3,250.00 60" x 0.5" 1 (1500 mm x 12 mm) Inconel 1 59947 \$1,457,00 0% \$1,457.00 Exchangeable probe tube \* ≤ 3092°F (1700°C) 30" x 0.5" (750 mm x 12 mm) CERAMIC Exchangeable probe tube \* 40" x 0.5" (1000 mm x 12 mm) CERAMIC ≤ 3092°F (1700°C) 1 59948 \$1,495.00 0% \$1,495.00 65670 \$85.00 Probe tube holder fitting 1/2"-12mm, for firm and tight probe fixation on the stack or gas pipe 1 \$85.00 0% Heat deflector shield Ø150mm for Ø12mm tube, usable at stack with high temperature radiation 1 65481-12 \$157.00 0% \$157.00 Adapter to connect 6mm steel tube of foreign heated sampling line to the analyzer gas inlet port 1 12906 \$315.00 0% \$315.00 \$655.00 \$655.00 Heated hose adapter D6D8 12906-D6D8 0% Probe adapter set HPI for 6mm or 8mm probe tube 1 13432-D6D8 \$465.00 0% \$465.00



\$1,223.00

T-fitting in front of the gas inlet incl. cable extension for the heated sample line

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# VARIO Iuxx EMI



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Control of the standard of t										l
With exchangeable probe tube, continuous stack draft measurement, without filter elements, to be used only for clean combustions (iteratural) as or light oil) (select one handle and one or more probe tubes from below)  Probe handle and UNHEATED VITON sampling line - 9f (2.7 m)  Probe handle and UNHEATED VITON sampling line - 9f (2.7 m)  Probe handle and UNHEATED VITON sampling line - 9f (2.7 m)  Probe handle and UNHEATED VITON sampling line - 9f (2.7 m)  Probe handle and UNHEATED VITON sampling line - 9f (2.7 m)  SEAD OF (3.7 m)  High grade steel \$1427* (800°C) 1 \$5571 \$241.00 0% \$251.00 0% \$315.00 0		5 PROBE F	FOR CLEAN COMB	USTION		QTY	Part No.	Unit price	Discount	Total Price
	Low cost gas sampling probe See Details on page 5									
Probe handle and UNHEATED VITON sampling line - 9° (2.7 m)	·	•	•	ral gas or light oil)						
Probe handle and UNHEATEDVTON sampling line - 16' (5.0 m)							1	1		,
EXCHANGEABLE PROBE TUBE FOR LOW COST PROBE (Cone is included)  Exchangeable probe tube  12" x 0.4" (300 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  1 \$5583 \$155.00 0% \$241.00  Exchangeable probe tube  20" x 0.4" (300 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  1 \$55671 \$241.00 0% \$241.00  Exchangeable probe tube  20" x 0.4" (300 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  1 \$55672 \$403.00 0% \$430.00  Exchangeable probe tube  40" x 0.4" (1000 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  40" x 0.4" (1000 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  50" x 0.4" (750 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 1472"F (800"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 330"F  1 60813  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 330"F  1 60813  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 330"F  1 60813  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  High grade steel \$ 2000"F (1100"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  1 60626  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  1 56737  Ext. No. Unit price  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"F (1100"C)  1 56737  Ext. No. Unit price  1 60815  Exchangeable probe tube  60" x 0.4" (1500 mm x 10 mm)  Inconel \$ 2000"										
Exchangeable probe tube 12" x 0.3" (300 mm x 8 mm) High grade steel \$1472"F (800"C) 1 55583 \$155.00 0% \$155.00 Exchangeable probe tube 12" x 0.4" (300 mm x 10 mm) High grade steel \$1472"F (800"C) 1 55671 \$241.00 0% \$241.00 0% \$241.00 0% \$240.	Probe handle and UNHEATEDVITON sampling line - 16' (5.0 m)					1	61710	\$540.00	0%	\$540.00
Exchangeable probe tube 12" x 0.3" (300 mm x 8 mm) High grade steel \$ 1472"F (800"C) 1 55583 \$155.00 0% \$155.00 Exchangeable probe tube 12" x 0.4" (300 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55671 \$241.00 0% \$241.00 0% \$240.00 Exchangeable probe tube 20" x 0.4" (750 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55672 \$403.00 0% \$403.00 Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55672 \$403.00 0% \$403.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55673 \$418.00 0% \$418.00 0% \$418.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55674 \$622.00 0% \$622.00 0% \$622.00 Exchangeable probe tube 40" x 0.4" (1500 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55674 \$622.00 0% \$622.00 0% \$622.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 300"F 1 60813 \$842.00 0% \$842.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 930"F 1 60813 \$842.00 0% \$955.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930"F 1 60815 \$1,123.00 0% \$1,123.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930"F 1 60815 \$1,123.00 0% \$1,123.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$ 2000"F (1100"C) 1 60826 \$692.00 0% \$692.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$ 2000"F (1100"C) 1 60826 \$692.00 0% \$692.00 0% \$1,123.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$ 2000"F (1100"C) 1 60826 \$692.00 0% \$1,123.00 0% \$1,										
Exchangeable probe tube	EXCHANGEABLE PRO		FOR LOW COST P	ROBE (Cone is inc	luded)					
Exchangeable probe tube 20" x 0.4" (500 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5672 \$403.00 0% \$403.00 Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5672 \$403.00 0% \$403.00 Exchangeable probe tube 60" x 0.4" (1000 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5673 \$418.00 0% \$418.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5673 \$418.00 0% \$418.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5674 \$622.00 0% \$622.00 Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$1472"F (800"C) 1 \$5674 \$622.00 0% \$842.00 Exchangeable probe tube 30" x 0.4" (1000 mm x 10 mm) High grade steel \$930"F 1 \$60813 \$842.00 0% \$842.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$930"F 1 \$60813 \$842.00 0% \$842.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$930"F 1 \$60814 \$955.00 0% \$955.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$2000"F (1100"C) 1 \$63927 \$1,318.00 0% \$1,123.00 0% \$1,123.00 Exchangeable probe tube 20" x 0.3" (500 mm x 8 mm) Inconel \$2000"F (1100"C) 1 \$63927 \$1,318.00 0% \$1,318.00 Exchangeable probe tube 40" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6737 \$814.00 0% \$1,473.00 Exchangeable probe tube 40" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6737 \$814.00 0% \$1,473.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6738 \$1,473.00 0% \$1,473.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6738 \$1,473.00 0% \$1,473.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6738 \$1,473.00 0% \$1,473.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6738 \$1,473.00 0% \$1,473.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 \$6737 \$814.00 0% \$1,473.00 0% \$1,473.00 0% \$1,473.00 0% \$1,473.00 0% \$1,473.00 0% \$1,4	Exchangeable probe tube	12" x 0.3"	(300 mm x 8 mm)	High grade steel	≤ 1472°F (800°C)	1	1			
Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$1472"F (800"C) 1 55672 \$403.00 0% \$403.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$1472"F (800"C) 1 55673 \$418.00 0% \$418.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$1472"F (800"C) 1 55674 \$622.00 0%	Exchangeable probe tube	12" x 0.4"	(300 mm x 10 mm)	High grade steel	≤ 1472°F (800°C)	1	55671	\$241.00	0%	\$241.00
Exchangeable probe tube	Exchangeable probe tube	20" x 0.4"	(500 mm x 10 mm)	High grade steel	≤ 1472°F (800°C)	1	55806	\$550.00	0%	\$550.00
Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 1472"F (800"C) 1 55674 \$622.00 0% \$622.00    EXCHANGEABLE PROBE TUBE FOR LOW COST PROBE (Cone is included)	Exchangeable probe tube	30" x 0.4"	(750 mm x 10 mm)	High grade steel	≤ 1472°F (800°C)	1	55672	\$403.00	0%	\$403.00
Exchangeable probe tube   30" x 0.4"   (750 mm x 10 mm)   High grade steel   5 930" F   1 60813   \$842.00   0% \$42.00	Exchangeable probe tube	40" x 0.4"	(1000 mm x 10 mm)	High grade steel	≤ 1472°F (800°C)	1	55673	\$418.00	0%	\$418.00
Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$ 930" F 1 60813 \$842.00 0% \$842.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 930" F 1 60814 \$955.00 0% \$955.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930" F 1 60815 \$1,123.00 0% \$1,123	Exchangeable probe tube	60" x 0.4"	(1500 mm x 10 mm)	High grade steel	≤ 1472°F (800°C)	1	55674	\$622.00	0%	\$622.00
Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) High grade steel \$ 930" F 1 60813 \$842.00 0% \$842.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 930" F 1 60814 \$955.00 0% \$955.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930" F 1 60815 \$1,123.00 0% \$1,123						•				
Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) High grade steel \$ 930" F 1 60814 \$955.00 0% \$955.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930" F 1 60815 \$1,123.00 0% \$1,123.	EXCHANGEABLE PRO	BE TUBE	FOR LOW COST P	ROBE (Cone is inc	luded)	QTY	Part No.	Unit price	Discount	Total Price
Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) High grade steel \$ 930" F 1 60815 \$1,123.00 0% \$1,123.00	Exchangeable probe tube	30" x 0.4"	(750 mm x 10 mm)	High grade steel	≤ 930° F	1	60813	\$842.00	0%	\$842.00
Exchangeable probe tube 20" x 0.3" (500 mm x 8 mm) Inconel \$2000"F (1100"C) 1 63927 \$1,318.00 0% \$1,318.00 Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) Inconel \$2000"F (1100"C) 1 60626 \$692.00 0% \$692.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56737 \$814.00 0% \$814.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1.473.00 0% \$1.473.00 0% \$1.473.00 0% \$1.473.00 0% \$1.473.00 0% \$1.473.00 0% \$1.593	Exchangeable probe tube	40" x 0.4"	(1000 mm x 10 mm)	High grade steel	≤ 930° F	1	60814	\$955.00	0%	\$955.00
Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) Inconel \$2000"F (1100"C) 1 60626 \$692.00 0% \$692.00 Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56737 \$814.00 0% \$814.00 Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00	Exchangeable probe tube	60" x 0.4"	(1500 mm x 10 mm)	High grade steel	≤ 930° F	1	60815	\$1,123.00	0%	\$1,123.00
Exchangeable probe tube 30" x 0.4" (750 mm x 10 mm) Inconel \$2000"F (1100"C) 1 60626 \$692.00 0% \$692.00   Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56737 \$814.00 0% \$814.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$159.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$159.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$159.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$159.00   Exchangeable probe tube filter element (1000"F (1100"C) 1 56738 \$1,473.00 0% \$159.00 0% \$159.00   Exchangeable probe tube (100"F (1100"C) 1 100"F (1100"C) 1 100"	1					-	1	1		1
Exchangeable probe tube 40" x 0.4" (1000 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56737 \$814.00 0% \$814.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,473.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,59.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,59.00   Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel \$2000"F (1100"C) 1 56738 \$1,473.00 0% \$1,59.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 60181 \$159.00 0% \$1,473.00   Exchangeable probe tube foot \$1 1001 \$1,4710	Exchangeable probe tube	20" x 0.3"	(500 mm x 8 mm)	Inconel	≤ 2000°F (1100°C)	1	63927	\$1,318.00	0%	\$1,318.00
Exchangeable probe tube 60" x 0.4" (1500 mm x 10 mm) Inconel ≤ 2000°F (1100°C) 1 56738 \$1,473.00 0% \$1,473.00  CONSUMABLES  Service & cleaning set 1 60181 \$159.00 0% \$159.00  PTFE Spare fine filter element (set of 5) 1 56879A \$420.00 0% \$420.00  Quartz wool filter element (1 pack 30g, lasting of 10x filtering for probe HPI) 1 10710 \$19.00 0% \$19.00  Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe 1 64872 \$192.00 0% \$192.00  Sintered metal filter for probe tube, CrNi, 3µm for probe tubes 60813-60814-60815 1 56748 \$522.00 0% \$522.00  Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls) 1 10879 \$31.00 0% \$31.00  #51634 (5 pcs.) for the original probe tube from MRU  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #12229 (5 pcs.) for the inlet of the treated line on the filter head (8 pcs.) for the hPI probe adapter  #10897 (5 pcs.) for the hPI probe adapter  #10897 (5 pcs.) for the hPI probe adapter  #10898 (10 pcs.) for the hPI probe adapter  #10897 (5 pcs.) for the hPI probe adapter  #10898 (10 pcs.) for the hPI probe adapter  #10898 (10 pcs.) for the hPI probe adapter	Exchangeable probe tube	30" x 0.4"	(750 mm x 10 mm)	Inconel	≤ 2000°F (1100°C)	1	60626	\$692.00	0%	\$692.00
CONSUMABLES   QTY   Part No.   Unit price   Discount   Total Price	Exchangeable probe tube	40" x 0.4"	(1000 mm x 10 mm)	Inconel	≤ 2000°F (1100°C)	1	56737	\$814.00	0%	\$814.00
Service & cleaning set   1	Exchangeable probe tube	60" x 0.4"	(1500 mm x 10 mm)	Inconel	≤ 2000°F (1100°C)	1	56738	\$1,473.00	0%	\$1,473.00
Service & cleaning set   1										
PTFE Spare fine filter element (set of 5)  Quartz wool filter element (1 pack 30g, lasting of 10x filtering for probe HPI)  Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe  1 10710 \$19.00 0% \$19.00  Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe  1 64872 \$192.00 0% \$192.00  Sintered metal filter for probe tube, CrNi, 3µm for probe tubes 60813-60814-60815  1 56748 \$522.00 0% \$522.00  Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)  Replacement seal set VITON O-ring for MGAprime and VARIOluxx  1 10879 \$31.00 0% \$31.00  #51634 (5 pcs.) for the original probe tube from MRU  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #12229 (5 pcs.) for the HPI probe adapter  #10897 (5 pcs.) for the filter holder at the back of the HPI probe head  #61333 (5 pcs.) for screw-in connector of the quick coupling  #61361 (5 pcs.) for the built-in filter AGF-FE-1	CONSUMABLES									
Quartz wool filter element (1 pack 30g, lasting of 10x filtering for probe HPI)  Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe  1 64872 \$192.00 0% \$192.00  Sintered metal filter for probe tube, CrNi, 3µm for probe tubes 60813-60814-60815  1 56748 \$522.00 0% \$522.00  Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)  Replacement seal set VITON O-ring for MGAprime and VARIOluxx  1 14712 \$259.00 0% \$259.00  #51634 (5 pcs.) for the original probe tube from MRU  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #10897 (5 pcs.) for the filter holder at the back of the HPI probe head  #61333 (5 pcs.) for screw-in connector of the quick coupling  #61361 (5 pcs.) for the built-in filter AGF-FE-1	Service & cleaning set					_	1			-
Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe  Sintered metal filter for probe tube, CrNi, 3µm for probe tubes 60813-60814-60815  Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)  Replacement seal set VITON O-ring for MGAprime and VARIOluxx  #10879  #10879  #11712  #10879  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #10897 (5 pcs.) for the filter holder at the back of the HPI probe head  #61333 (5 pcs.) for screw-in connector of the quick coupling  #61361 (5 pcs.) for the built-in filter AGF-FE-1	PTFE Spare fine filter element (set of 5)									
Sintered metal filter for probe tube, CrNi, 3µm for probe tubes 60813-60814-60815  Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)  Replacement seal set VITON O-ring for MGAprime and VARIOluxx  1 14712 \$259.00 0% \$31.00  ##10898 (10 pcs.) for the original probe tube from MRU  ##10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  ##12229 (5 pcs.) for the filter holder at the back of the HPI probe head  ##61333 (5 pcs.) for screw-in connector of the quick coupling  ##61361 (5 pcs.) for the built-in filter AGF-FE-1						_				
Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)  Replacement seal set VITON O-ring for MGAprime and VARIOluxx  #51634 (5 pcs.) for the original probe tube from MRU  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #12229 (5 pcs.) for the HPI probe adapter  #10897 (5 pcs.) for the filter holder at the back of the HPI probe head  #61333 (5 pcs.) for screw-in connector of the quick coupling  #61361 (5 pcs.) for the built-in filter AGF-FE-1	Particulate filter element FSM, for low dust filter-cartridge (pack of 10 pcs) for HPI probe					_	64872	\$192.00	0%	\$192.00
Replacement seal set VITON O-ring for MGAprime and VARIOluxx  #51634 (5 pcs.) for the original probe tube from MRU  #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)  #12229 (5 pcs.) for the HPI probe adapter  #10897 (5 pcs.) for the filter holder at the back of the HPI probe head  #61333 (5 pcs.) for screw-in connector of the quick coupling  #61361 (5 pcs.) for the built-in filter AGF-FE-1	Sintered metal filter for probe tube, CrNi, 3μm for probe tubes 60813-60814-60815									
#51634 (5 pcs.) for the original probe tube from MRU #10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required) #12229 (5 pcs.) for the HPI probe adapter #10897 (5 pcs.) for the filter holder at the back of the HPI probe head #61333 (5 pcs.) for screw-in connector of the quick coupling #61361 (5 pcs.) for the built-in filter AGF-FE-1	Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls)				1	10879	\$31.00	0%	\$31.00	
#10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required) #12229 (5 pcs.) for the HPI probe adapter #10897 (5 pcs.) for the filter holder at the back of the HPI probe head #61333 (5 pcs.) for screw-in connector of the quick coupling #61361 (5 pcs.) for the built-in filter AGF-FE-1	Replacement seal set VITON O-ring for MGAprime and VARIOluxx				1	14712	\$259.00	0%	\$259.00	
#12229 (5 pcs.) for the HPI probe adapter #10897 (5 pcs.) for the filter holder at the back of the HPI probe head #61333 (5 pcs.) for screw-in connector of the quick coupling #61361 (5 pcs.) for the built-in filter AGF-FE-1	#51634 (5 pcs.) for the original probe tube from MRU									
#10897 (5 pcs.) for the filter holder at the back of the HPI probe head #61333 (5 pcs.) for screw-in connector of the quick coupling #61361 (5 pcs.) for the built-in filter AGF-FE-1	#10898 (10 pcs.) for the inlet of the treated line on the filter head (2 pcs. required)									
#61333 (5 pcs.) for screw-in connector of the quick coupling #61361 (5 pcs.) for the built-in filter AGF-FE-1	#12229 (5 pcs.) for the HPI probe adapter									
#61361 (5 pcs.) for the built-in filter AGF-FE-1	#10897 (5 pcs.) for the filter holder at the back of the HPI probe head									
	#61333 (5 pcs.) for screw-in connector of the quick coupling									
#51563 (1 pc.) Silicone grease for all seals	#61361 (5 pcs.) for the built-in filter AGF-FE-1									
	#51563 (1 pc.) Silicone grease for all seals									



# LOW DUST PROBE

With exchangeable probe tube, continuous stack draft measurement, gas temperature measurement Without filter elements, to be used only for clean combustions (like natural gas or light oil)





HEATED PROBE HEA

7902 Horseshoe Circle Humble, Texas 77396 Phone: (832) 230-0155 / Fax: (832) 230-1553 www.mru-instruments.com





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The promised delivery date is the best estimate possible, based upon current and anticipated manufacturing capabilities, of when the product will be shipped. MRU Instruments, Inc. assumes no liability for loss, damages or consequential damages due to delay.

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### H. Claims/Notice of Defects

Failure of the Buyer to object in writing to any merchandise shipped to it by MRU Instruments, Inc. within 30 days after receipt thereof will constitute complete acceptance by Buyer of such merchandise. Rejected material must be returned to MRU Instruments, Inc. within 45 days after receipt and with prior authorization from MRU Instruments, Inc. MRU Instruments, Inc. may (at its option) recondition or replace the rejected material to meet Buyer's specifications within a reasonable time period after receipt. Claims for shipping damage must be made with the carrier.

All products must be returned in the same packing conditions in which it left MRU Instruments, Inc.' manufacturing location(s) (anti-static rails and boxes, adequately protected, etc.). Buyer must pay return shipping.

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MRU Instruments, Inc. may amend this Agreement at any time by posting the amended terms on its web site. Except as stated below, all amended terms shall automatically be effective after they are posted on the web site. This Agreement may not be otherwise amended except in a writing signed by Buyer and MRU Instruments, Inc.

This agreement was last revised on January 30, 2007.

