



**EMISSION ANALYZER** 



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

# MGA prime



MAG prime

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Price list valid till: 12/31/2025

## MGA prime

## **HIGH END flue gas emission analyzer**

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

### **BASIC CONFIGURATION & FUNCTIONS MGAprime**



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

1 hour Li-Ion 96W battery stand-by operation, with power supply for the dual gas cooler, ndir module and heated probe filter

Modern, rugged aluminum enclosure with rubber molded impact protection, all packed in soft padded nylon transport case

### Prepared for options like:

Wireless data transfer and display to smartphone / tablet with MRU4u app and to notebook with MRU4win Software Data transfer over USB or WLAN dongle or over VNC server using LAN/WLAN Printing of measured data and emission reports over external standard printer connected to USB port Flow rate monitoring using Pitot tubes and mass emission calculation g/sec Temperature regulation of heated gas sampling line (only possible with AC grid power supply)

### Combustion calculations (fuel type dependent):

- CO/CO2 ratio (poison index GI)
- Dew point (flue gas)
- Excess air and air ratio (Lambda)
- Heat losses (using Siegert formula)
- Combustion efficiency

### Emission calculations:

- mg/Nm3 for all toxic gases
- user definable O2 referencing for toxic gases emission reports
- g/sec mass emission calculation with optional stack flow rate measurement using Pitot tube
- NOx as NO2 (mg/Nm3), true NOx = NO + NO2 and NOx as mg/m3 NO2



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MGA prime basic configuration	WITH	
<ul> <li>Using advanced DPTechnology for NDIR measuremer</li> </ul>	ts with improved accuracy and without offset drifts	
<ul> <li>Included analyzer preparation for optional acid dosag</li> </ul>	e system, (recommended for low SO2 and low NOx measurement)	Water a star a star
Integrated, efficient dual heat exchanger gas cooler (	Peltier type) with dual automatic condensate draining pumps	The cost was
<ul> <li>Automatic zeroing by means of 3-way solenoid valve,</li> </ul>	internal sample flow volume measurement	
Strong, regulated sample gas pump and easy replace	able, effective PTFE filter	
• Zero gas (ambient air) inlet nozzle and passive VENT of	outlet of sample gas	
Stack gas temperature measurement up to 2,192 °F (	1.200°C)	
Differential pressure measurement +/- 40 inH2O (100	mbar)	
Combustion air temperature measurement up to 932	°F (500°C)	
• O2 referencing (normalization) to user settable value		
Automatic internal test and control of soft- and hards	vare functions	
Large, high-contrast and backlit 7" (840x480) graphica	al display	
Display with easy, intuitive touch panel and all measu	red data at one sight	
LINUX operating system, graphical data visualization,	csv or pdf reporting file	
Automatic measurement incl. data logging function		
Data transfer to PC over LAN Ethernet (RJ45 socket) c	r USB-stick	
<ul> <li>8 channel analog output 4-20mA and 4 channel analog</li> </ul>	g input 4-20mA	
Complete combustion calculation (user activation by	software button), using country specific fuel type list	
<ul> <li>Including universal analogue input (AUX socket) with</li> </ul>	0-10 V or 4-20 mA signal or K-thermocouple or RS485	
Universal power supply: mains 90-264 Vac/ 105 W (u	p to 600W with 16.4 foot (5m) heated sampling line))	
<ul> <li>1 hour Li-Ion 96W battery stand-by operation, with p</li> </ul>	ower supply for the dual gas cooler, ndir module and heated probe filter	
<ul> <li>Modern, rugged aluminum enclosure for the analyze</li> </ul>	r, with rubber molded impact protection and shoulder strap	
<ul> <li>Analyzer packed in soft padded nylon transport bag 2</li> </ul>	6.4 lbs. (12kg),	
<ul> <li>all other accessories packed in separate soft transpor</li> </ul>	t bag 17.6 lbs. (up to 8kg)	

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	QTY	Part No.	Unit price	Discount	Total Price
MGA prime with Long Life O2 sensor (with 4 - 5 years life expectation) as described above					\$19,030.00
	QTY	Part No.	Unit price	Discount	Total Price
as described above	1	945142	\$30,605.00	0%	\$30,605.00
		as described above 1 QTY	as described above 1 945132 QTY Part No.	as described above 1 945132 \$19,030.00 QTY Part No. Unit price	as described above 1 945132 \$19,030.00 0% QTY Part No. Unit price Discount

Traceability document for gas calibration cylinders /pressure / temperature calibrators	1	12439	\$531.00	0%	\$531.00



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				OTV	Dout No.	Linit mine	Discount	Total Duiss
8 - Gas NDIR bench	<u>co / coa</u>			QTY	Part No.	Unit price	Discount	Total Price
NDIR Module (8 GAS)	CO / CO2	0 – 300 ppm up to 10,000 ppm	0 -40.0%	1	10184-8	\$20,435.00	0%	\$20,435.0
		0 – 400 up to 4,000 ppm	0 – 300 up to 1,000 ppm					
	HC as CH4 / C3H8	0 – 500 up to 10,000 ppm	0 – 300 up to 10,000 ppm					
	N2O / <mark>SO2</mark>	0 – 300 up to 1,000 ppm	0 – 300 up to 4,000 ppm					
6 - Gas NDIR bench				QTY	Part No.	Unit price	Discount	Total Price
NDIR Module (6 GAS)	CO / CO2	0 – 1,000 ppm up to 10,000 ppm	0 -40.0%	1	12147	\$12,909.00	0%	\$12,909.0
	NO / NO2	0 – 1,000 up to 4,000 ppm	0 – 500 up to 1,000 ppm				•	
	HC as CH4 / SO2	0 – 3,000 ppm up to 10,000 ppm	0 – 1,000 up to 4,000 ppm					
6 - Gas NDIR bench				QTY	Part No.	Unit price	Discount	Total Price
NDIR Module (6 GAS)	CO / CO2	0 – 1,000 ppm up to 10,000 ppm	0 -40.0%	1	12150	\$12,909.00		\$12,909.0
	NO / NO2	0 – 1,000 up to 4,000 ppm	0 – 500 up to 1,000 ppm					1
	HC as C3H8 / SO2	0 – 3,000 ppm up to 10,000 ppm	0 – 1,000 up to 4,000 ppm					
Range extension CC	D-NDIR up to 100,0	00ppm		QTY	Part No.	Unit price	Discount	Total Price
Range extension CO		0 - 100,000 p	opm	1	11484	\$381.00	0%	\$381.0
		without DPT (increased offset errors)						
Electro-chemical :	sensors			QTY	Part No.	Unit price	Discount	Total Price
Sensor OPTION - H2S		0 - 2,000 p	opm overload 5,000 ppm (*1)	1	10547	\$1,118.00	0%	\$1,118.0
(*1) NOTE: is maximu	ım overload range, suita	ble only for short measuring time						
OPTIONS & ACCESS	ORIES			QTY	Part No.	Unit price	Discount	Total Price
Special calibration and soft	ware for "fast mode" gas	analysis		1	12919	\$1,867.00	0%	\$1,867.0
Acid dosage APE-box and 2	liter storage vessel for 1	0% H3PO4	220VAC	1	12359	\$5,484.00	0%	\$5,484.0
NOTE: phosphoric acid sha	all be procured locally or	see consumables / ask MRU						
Acid dosage APE-box and 2	liter storage vessel for 1	0% H3PO4 same as above	e with 110VAC	1	12076US	\$5,484.00	0%	\$5,484.0
USB to Wi-Fi converter (do	ngle) for web browsing a	nd wireless distance data transfer		1	10549	\$54.00	0%	\$54.0
NOTE: order additional U	JSB socket if needed							-
USB to Bluetooth converte	r set, wireless data transf	fer to PC / notebook with MRU4Win		1	12992	\$1,033.00	0%	\$1,033.0
NOTE: set is with 2x pre-	paired and configured co	onverters, required for up to 300m long dis	stance wireless data transfer					
RS485 interface with Modb	ous RTU protocol for long	distance data transfer over cable		1	10557	\$117.00	0%	\$117.0
NOTE: one twisted pair of	f shielded cable is user s	соре			•		•	
Active VENT port with force	ed sample gas ventilation	ı via internal pump		1	10558	\$322.00	0%	\$322.0
Measurement adapter cabl	le - Analog I/O Safety tov	wer connector to 4-20 mA, 25 D-SUB conne	ctor	1	13732	\$639.00	0%	\$639.
NLAN / USB printer with Li	-Ion battery, 80mm pape	er width and separate battery charger		1	10872	\$518.00	0%	\$518.
Combustion air temperatur	re probe, tube length 12'	1		1	60073	\$305.00	0%	\$305.
VRU4win - "full" version s	oftware, for real time da	ta acquisition and handling on PC with Wind	dows10	1	10539	\$298.00	0%	\$298.
NOTE: "light" version is fre	ee of charge available on	MRU website www.mru.eu						•
STORAGE AND TR	ANSDORTATION			OTV	Dort No.	Linit mino	Discount	Total Drie
				QTY	Part No.	Unit price	Discount	Total Price
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STORAGE AND TRANSPORTATION	QTY	Part No.	Unit price	Discount	Total Price
Robust aluminum frame transport case with trolley and wheels	1	11129	\$1,051.00	0%	\$1,051.00
Rugged "Pelican" style transport case, usable also for flight transportation	1	12996	\$726.00	0%	\$726.00
Add-on cost for IP42 soft padded nylon case, for measurements even in rainy conditions,	1	12458	\$368.00	0%	\$368.00
NOTE: as replacement of standard analyzer soft transport case					
Ni-MH battery, 13,2V / 2A / 25W , for trouble-free air transportation	1	12361	\$87.00	0%	\$87.00
NOTE: replacement of standard Li-lon battery					<u> </u>



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ADDITIONAL MEASUREMENTS						QTY	Part No.	Unit price	Discount	Total Price		
Stack gas flow velocity measurement including mass flow calculation						1	10548	\$283.00	0%	\$283.00		
PITOT TUBES WITH TEMPERATURE MEASUREMENT						QTY	Part No.	Unit price	Discount	Total Price		
See additional price list if needed												
Pitot or Darcy tube connection cable to analyzer AUX port						1	66248	\$161.00	0%	\$161.00		
INDUSTRIAL GAS SAMPLING PROBE HPI- Addition	onal pro					QTY	Part No.	Unit price	Discount	Total Price		
Industrial probe head, with integrated heater, 320 °F (160°C) temperatu	re regulation	n by ana	alyzer, v	vith ea	sy replaceable	1	12456	\$1,547.00	0%	\$1,547.00		
cartridge filter, using borosilicate quartz wool for dirty combustions, pro	be head pre	pared f	or intal	ke of e	kchangeable probe tub	be						
(without tube, please select one from below) and gas temperature meas	surement usi	ing K-ty	pe (NiC	rNi) th	ermocouple							
Easy replaceable cartridge filter, using GW filter (glass-wool) element fo	r dirty combu	ustions				1	12667	\$396.00	0%	\$396.00		

 Easy replaceable cartridge filter, using GW filter (glass-wool) element for dirty combustions
 1
 12667
 \$396.00
 0%
 \$396.00

 Easy replaceable cartridge filter, using FSM filter element for clean combustions
 1
 12665
 \$396.00
 0%
 \$396.00

 NOTE:
 for fast on-site filter replacement, use of 2 cartridges is recommended
 5
 5
 5
 5
 5

INDUSTRIAL GAS SAMPLING LINE	QTY	Part No.	Unit price	Discount	Total Price
Temperature controlled and regulation by analyzer,					
Heated sampling line - with 9.84' (3.0 m) length heated Teflon hose and fast coupling to above gas sampling probe head 110VAC	1	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	1	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	1	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	1	11238-05	\$2,040.00	0%	\$2,040.00
NOTE: other heated sampling lines lengths on request					

INDUSTRIAL GAS SAMPLING LINE	QTY	Part No.	Unit price	Discount	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					
Heated sampling line - with 36` (11.0 m) length	1	14536-11	\$6,017.00	0%	\$6,017.00
Heated sampling line - with 98` (30.0 m) length (this is the maximum length)	1	14536-30	\$10,276.00	0%	\$10,276.00

EXCHANGEABLE PR	OBE TUBE	FOR INDUSTRIAL	. PROBE HANDLE (	Cone is included)	QTY	Part No.	Unit price	Discount	Total Price
Exchangeable probe tube	12" x 0.5"	(300 mm x 12 mm)	High grade steel	≤ 1472°F (800°C)	1	11620	\$435.00	0%	\$435.00
Exchangeable probe tube	20" x 0.5"	(500 mm x 12 mm)	High grade steel	≤ 1472°F (800°C)	1	11640	\$515.00	0%	\$515.00
Exchangeable probe tube	30" x 0.5"	(750 mm x 12 mm)	High grade steel	≤ 1472°F (800°C)	1	11621	\$737.00	0%	\$737.00
Exchangeable probe tube	40" x 0.5"	(1000 mm x 12 mm)	High grade steel	≤ 1472°F (800°C)	1	11622	\$753.00	0%	\$753.00
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 PR	OBE TUBE	FOR INDUSTRIAL	PROBE HANDL	E (Cone is included)	QTY	Part No.	Unit price	Discount	Total Price
Exchangeable probe tube	20" x 0.5"	(500 mm x 12 mm)	Inconel	≤ 2000°F (1100°C)	1	61827	\$1,649.00	0%	\$1,649.00
Exchangeable probe tube	30" x 0.5"	(750 mm x 12 mm)	Inconel	≤ 2000°F (1100°C)	1	58076	\$1,679.00	0%	\$1,679.00
Exchangeable probe tube	40" x 0.5"	(1000 mm x 12 mm)	Inconel	≤ 2000°F (1100°C)	1	59552	\$1,618.00	0%	\$1,618.00
Exchangeable probe tube	60" x 0.5"	(1500 mm x 12 mm)	Inconel	≤ 2000°F (1100°C)	1	59904	\$3,250.00	0%	\$3,250.00
Exchangeable probe tube *	30" x 0.5"	(750 mm x 12 mm)	CERAMIC	≤ 3092°F (1700°C)	1	59947	\$1,457.00	0%	\$1,457.00
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

\* (without temperature measurement)

Probe tube holder fitting 1/2"-12mm, for firm and tight probe fixation on the stack or gas pipe	1	65670	\$85.00	0%	\$85.00
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
Probe adapter set HPI for 6mm or 8mm probe tube	1	13432-D6D8	\$465.00	0%	\$465.00
Heated hose adapter D6D8	1	12906-D6D8	\$655.00	0%	\$655.00
T-fitting in front of the gas inlet incl. cable extension for the heated sample line	1	13445	\$1,223.00	0%	\$1,223.00



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# MGA prime



#### **MAG** prime Page: 6 of 6 Price list valid till: 12/31/2025 CONSUMABLES **Total Price** QTY Part No. Unit price Discount 60181 \$159.00 0% \$159.00 Service & cleaning set 1 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, for FSM-cartridge filtering (pack of 10 pcs) 64872 \$192.00 0% \$192.00 1 10879 0% \$31.00 Printer paper, thermo paper, 80 mm x 20 m (1 pack. = 5 rolls) 1 \$31.00 Phosphoric acid 10% H3PO4, 1 Liter (usable for 40 hours measurement) 0% \$120.00 1 12245 \$120.00 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) #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 #51563 (1 pc.) Silicone grease for all seals

## 1. Industrial gas sampling probe



With heated, easy replaceable glass wool filter With exchangeable probe tube and gas temperature measurement using K-type thermocouple

STORAGE AND TRANSPORTATION



Useful nylon protection case with shoulder strap







# MGA prime



## **SALES TERMS & CONDITIONS**

### A. Acceptance/Agreement

All orders are subject to acceptance by MRU Instruments, Inc. Additional or different terms or any attempt by the Buyer to vary, in any degree, any of the terms of this sales agreement form shall be deemed material and are objected to or rejected, but this sales agreement form shall not operate as a rejection of the Buyer's offer unless it contains variances in the terms of the description, quantity, price or delivery schedule of the goods.

### **B.** Payment Terms

MRU Instrumentsqpayment terms are net 30 days unless special written arrangements have been made. MRU Instruments, Inc. may, at any time, suspend performance of any order or require payment in cash, security or other adequate assurance satisfactory to MRU Instruments, Inc. when, in MRU Instrumentsqopinion, the financial condition of Buyer or other grounds for insecurity warrant such action. MRU Instruments, Inc. reserves the right to assess late charges on accounts due past 30 days at the rate of 18% per annum. All goods are shipped Ex Works and are the property of the Buyer upon shipment.

### C. Cancellation/Termination

Upon written notice of cancellation or termination for the Buyer's convenience of standard catalog items, for standard product only, the Buyer is subject to a minimum 15% charge on the remaining balance and a charge reflecting a reversion to the quantity pricing of items actually delivered. In the event that the goods are special, non-standard or custom the Buyer may terminate this order in whole or in part for its convenience upon written notice to MRU Instruments, Inc. in which event MRU Instruments, Inc. in which event MRU Instruments, Inc. is all be entitled to termination charges consisting of a percentage of the order price reflecting the percentage of the work performed prior to termination plus actual direct costs resulting from termination.

### D. Remedies in the Event of Cancellation or Default

In the event the Buyer cancels this order, or becomes overdue on its account payable to MRU Instruments, Inc. by failing to pay for this order when due in accordance with the terms hereof, in addition to the charges assessed to the Buyer pursuant to Paragraphs B and C of this Agreement, the buyer shall be required to pay all costs of collection, including, whether suit be brought or not, attorney fees, court costs, collection expenses and other expenses which MRU Instruments, Inc. may incur or pay in the prosecution of defense of its rights hereunder whether in judicial proceedings at law or in equity, including bankruptcy court and appellate proceedings, or whether out of court. In addition, MRU Instruments, Inc. or to destroy all copies of the Software upon termination of this Agreement.

### E. Delivery

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.

In any event, MRU Instruments, Inc. shall not be in default for any failure to deliver Products to Buyer by the promised delivery date. In the event that MRU Instruments, Inc. so defaults, Buyer's sole remedy for such default shall be cancellation of the applicable order. MRU Instruments, Inc. shall have no other liability to Buyer as a consequence of any such default.

#### F. Force Majeure

Fulfillment of this order is contingent upon the availability of materials. MRU Instruments, Inc. shall not be liable for any delay in delivery or for non-delivery in whole or in part caused by the occurrence of any contingency beyond the control of either MRU Instruments, Inc. or suppliers to MRU Instruments, Inc. including but not limited to delay in transportation, labor disruption, earthquake, fire, acts of God, or any other act outside of MRU Instruments, Inc.'s reasonable control

#### G. Warranty

MRU Instruments, Inc. expressly warrants that the materials covered by this sale will conform to the specifications, drawings or other descriptions specified by the Buyer or if none are so specified, to MRU Instruments standard specifications for such material. The materials will be new and unless specified to the contrary on the order acknowledgment or invoice, will be free of all liens and encumbrances.

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MRU Instruments, Inc. shall not be liable for any incidental, special, indirect or consequential damages, losses or expenses directly or indirectly arising from the sale whether in contract, tort, or any other legal theory. In any event, MRU Instrumentsquability hereunder is expressly limited to the repair or replacement (at MRU Instrumentsqueption) of non-conforming goods or, at MRU Instrumentsquelection, to the repayment or crediting to Buyer the purchase price of such goods.

#### 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.

#### I. Confidential Information

All drawings, diagrams, specifications and other materials furnished by MRU Instruments, Inc. and identified as confidential, or information which the Buyer knows or has reason to know is confidential, proprietary or trade secret information of MRU Instruments, Inc., relating to the use and service of articles furnished hereunder and the information therein, are proprietary to MRU Instruments, Inc.. Buyer may not reproduce or distribute such materials except to buyer's employees who may use the articles as part of their duties.

Customer agrees that it will take all reasonable measures to maintain the confidentiality of all confidential information in its possession or control, which will in no event be less than the measures it uses to maintain the confidentialit of its own information of equal importance. Accordingly, MRU Instruments, Inc. will be entitled to preliminary and permanent injunctive relief and other equitable relief for any breach of this Section 1. Buyer further acknowledges and agrees that the sale of products to Buyer does not convey any license express or implied, and Buyer shall not, manufacture, modify, reverse engineer, duplicate, otherwise copy or reproduce any o the products or any part thereof. MRU Instruments, Inc. will teat drawings, specifications or data furnished by Buyer as confidential, when identified as such, in connection with this purchase.

#### J. General Provisions

Any cause of action arising from this agreement, or breach of it, must be commenced within one year after the cause of action occurs. MRU Instruments, Inc. reserves the right to correct any stenographical or clerical errors in any of the writings issued by it. The terms and conditions of sale and any description on the face of MRU Instruments writings constitute a complete and exclusive statement of the terms and conditions of the sale of the goods by MRU Instruments, Inc. to Buyer unless amended in writing between Buyer and MRU Instruments, Inc. Buyer may not assign any rights to, or delegate any performance owed under the agreement without the written consent of MRU Instruments, Inc.

This Agreement will be governed by and construed in accordance with the laws of the State of Texas. Any suit hereunder will be brought solely in the federal or state courts of Harris County, Texas, and Buyer hereby submits to the personal jurisdiction thereof. This agreement, as amended by any posted notices, constitutes the entire terms and conditions on products offered for sale by MRU Instruments, Inc. 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 was last revised on January 30, 2007.

MRU – we cover all your analyzer needs !!

