

July 1, 1974

MIRAN-II GAS ANALYZERS

201-2120	MIRAN-II Infrared Gas Analyzer With Twenty Meter Gas Cell: Analytical and Reference Measurements for Long Term Stability, Linear Absorbance Readout, Continuously Variable Zero and Span Controls, Meter Readout, Connector for Recorder Output, Variable Path Gas Cell (3/4 to 20 Meters), Evacuatable and Pressurizable to 10 Atmospheres, NaCl Windows.....\$4,900.00
201-1120	MIRAN-II Infrared Gas Analyzer With Twenty Meter Gas Cell: Same as 201-2120, except No Reference Measurement.....\$4,800.00
201-2121	MIRAN-II Infrared Gas Analyzer With One Meter Gas Cell: Analytical and Reference Measurements for Long Term Stability, Linear Absorbance Readout, Continuously Variable Zero and Span Controls, Meter Readout and Connector for Recorder Output, One Meter Gas Cell, Pathlength 1.0 Meters or 0.5 Meters.....\$3,800.00
201-1121	MIRAN-II Infrared Gas Analyzer With One Meter Gas Cell: Same as 201-2121, except No Reference Measurement.....\$3,700.00
	NOTE: Substitution of AgBr Windows Instead of NaCl Windows.....\$ 160.00

GENERAL PURPOSE ANALYZERS

201-2130	MIRAN-II General Purpose Infrared Analyzer: Analytical and Reference Measurements for Long Term Stability, Linear Absorbance Readout, Continuously Variable Zero and Span Controls, Meter Readout and Connector for Recorder Output, Sampling Compartment Covered by Rugged Aluminum Casting, Sealed and Purgeable. Sampling Platform Compatible with any MIRAN-I Accessories.....\$3,250.00
201-1130	MIRAN-II General Purpose Infrared Analyzer: Same as 201-2130, except No Reference Measurement.....\$3,150.00

ACCESSORIES

200-0101	High Set Point Alarm: Integral to Analyzer, Provides Relay Closure under Alarm Condition, No Audio or Visual Indicator.....\$ 200.00
200-0102	Cell Slide Mount.....\$ 100.00
200-0103	Control Box Extension Cable (4 Feet) for Remote Mounting of Controls.....\$ 50.00
200-6600	Flow-Through Internal Reflection Cell: Stainless Steel Construction, 1/4" O.D. Inlet and Outlet Ports, Including Mounting Block, Less Reflector Plate.....\$ 400.00
200-6610	Heated Flow-Through Internal Reflection Cell: Same as 200-6600 with Heating Cartridge, Temperature to 200°C and Temperature Controller.....\$ 625.00

200-6620	Minimum Volume Flow-Through ATR Cell: Stainless Steel Body, 1/8" O.D. Inlet and Outlet, Including Mounting Block, But Not Including Reflector Plate.....	\$ 400.00
200-6601	KRS-5 Plate, 52 x 8 x 1 1/2 mm., for use with 200-6600 Cell.....	\$ 100.00
200-6602	Ge Plate, 52 x 8 x 1 1/2 mm., for use with 200-6600 Cell.....	145 - 100.00
200-6603	Si Plate, 52 x 8 x 1 1/2 mm., for use with 200-6600 Cell.....	265 - 125.00
200-6604	ZnSe Plate, 52 x 8 x 1 1/2 mm., for use with 200-6600 Cell.....	265 - 150.00
200-6605	Sapphire Plate, 52 x 8 x 1 1/2 mm., for use with 200-6600 Cell.....	\$ 600.00

MULTI-SAMPLE POINT AMBIENT AIR MONITORS

206-2120	MIRAN-II Infrared Sensing Head: Analytical Wavelength: To be specified. Reference Wavelength: To be specified. Twenty Meter Variable Path Gas Cell. Calibration Curves for Specific Analysis. Leeds & Northrup Speedomax H Multi-Point Recorder. Six Sample Inlet Ports Controlled by Nylon Solenoid Valves. Cycle Time One Minute Per Point, Six Minutes Total. Manual Bypass Valve for Calibration Checks. Switches to Eliminate Individual Valves from Automatic Cycle or to Continuously Monitor a Single Sample Point. Sample Pump Capable of Pulling Samples 200 Feet Through 1/2" I.D. Tubing. Internal Plumbing: Nylon, Teflon, Stainless Steel. (Plumbing from Sample Point to Instrument Location is Not Included.)	
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206-2120 continued	System Housed in a NEMA-12 General Purpose Enclosure (Supplied with Legs for Free Standing Installation), except for the Sample Pump which is mounted externally. Particulate Filter for each Sample Line...\$11,250.00
206-1120	Multi-Sample Point Ambient Air Monitor: Same as 206-2120, except No Reference Measurement.....\$11,150.00
212-2120	Multi-Sample Point Ambient Air Monitor: MIRAN-II Infrared Sensing Head: Analytical Wavelength: To be specified. Reference Wavelength: To be specified. Twenty Meter Variable Path Gas Cell. Calibration Curves for Specific Analysis. Leeds & Northrup Speedomax H Multi-Point Recorder. Twelve Sample Inlet Ports Controlled by Nylon Solenoid Valves. Cycle Time One Minute Per Point, Twelve Minutes Total. Plumbing System Same as 206-2120.....\$12,500.00
212-1120	Multi-Sample Point Ambient Air Monitor: Same as 212-2120, except No Reference Measurement.....\$12,400.00
	NOTE: Substitution of AgBr Windows Instead of NaCl Windows on Twenty Meter Cell.....\$ 160.00

ACCESSORIES TO AMBIENT AIR MONITOR

206-0111	Indicating High Set Point Alarm: Calibrated and Adjustable Full Scale, Manual Reset, Red & Green Indicating Lights, Terminals to Drive Additional Audio or Visual Signal. Includes 200-0101 Integral Alarm.....\$ 325.00
206-0112	Positive Pressure Sample Pump: Pump Located on Inlet of Gas Cell, Stainless Steel Internal Construction (Air Control Model G-3). Cycle Time Increased to Two Minutes per Sample Point.....\$ 500.00

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CARBON DIOXIDE ANALYZERS

220-2120

Low Level CO₂ Analyzer:
MIRAN-II Infrared Sensing Head:
Analytical Wavelength: 4.26 microns.
Reference Wavelength: 3.99 microns.
Continuously Variable Zero and Span Controls.
External Optical Path Sealed and Purgeable.
Variable Path Gas Cell (3/4 to 20 Meters).
Evacuatable and Pressurizable to 10 Atmospheres.
Minimum Detectable .05 ppm (One Atmosphere).
Maximum - 1/2 percent.
Range - Variable, Controlled by Pathlength
and Span Adjustments.....\$4,850.00

220-2121

Ambient CO₂ Analyzer:
MIRAN-II Infrared Sensing Head:
Analytical Wavelength: 4.26 microns.
Reference Wavelength: 3.99 microns.
Continuously Variable Zero and Span Controls.
External Optical Path Sealed and Purgeable.
One Meter Gas Cell.
Sensitivity - One ppm at Standard Temperature
and Pressure.....\$3,750.00

NOTE: MIRAN-II Analyzers are set up to operate on 115 volts, 50 or 60 cycles. They can be easily modified for 230 volt, 50 or 60 cycle operation. Specify if 230 volt wiring is desired. The output of the MIRAN-II is 0 to 2 volts D.C.

The above prices are F.O.B. South Norwalk, Connecticut and are subject to change without notice.

SPARE PARTS LIST

MIRAN-II ANALYZER

63-0002	Source Assembly	\$ 45.00
63-0003	Pre-Amplifier (Excluding Detector & Lens)	\$250.00
63-0008	Detector	\$100.00
63-0032	Detector Lens, AgBr	\$ 75.00
65-0059	Main Circuit Board - Single Channel	\$500.00
65-0003	Main Circuit Board - Difference Output	\$500.00
65-0004	Motor Start Board	\$ 75.00
999-6027	Transistor 2N4918	\$ 3.00
999-6028	Transistor NJE3055	\$ 4.00
999-6045	Transistor E271	\$ 3.00
999-1147	Fuse, 1 Amp	\$.15

TWENTY METER VARIABLE PATH GAS CELL

5669	AgBr Window with Holder	\$190.00
5670	NaCl Window with Holder	\$110.00
63-0033	Focusing Lens, AgBr	\$150.00
	Cell Rework - Recoat and Realign Mirrors (Factory Service)	\$150.00

AMBIENT AIR MONITORING SYSTEM

999-7132	Chart Paper (Leeds & Northrup #660182)	\$ 4.50
999-7133	Print Mechanism Assembly - 6 Pt. (L & N #324435)	\$ 7.00
999-7134	Print Mechanism Assembly - 12 Pt. (L & N #036292)	\$ 7.00
999-7024	Solenoid Valve	\$ 30.00
999-7002	Vacuum Pump	\$ 80.00
999-3507	Replacement Cartridge for Particulate Filter	\$ 25.00
65-0036	Solenoid Drive Board - 6 Pt.	\$125.00
65-0037	Solenoid Drive Board - 12 Pt.	\$200.00
999-7023	Input Relays (L & N #036292)	\$ 7.50
65-0039	High Point Alarm Board	\$150.00
999-1471	Lock-in Relay	\$ 9.00
999-1474	Fuse, 3 Amp Slow Blow (Pump)	\$.25
999-1475	Fuse, 1 Amp Slow Blow (Recorder)	\$.25
999-1477	Fuse, 15 Amp (Heater)	\$.25
999-1147	Fuse, 1 Amp (Solenoid Drive System)	\$.15
999-1470	Light 656 (Alarm Indicators)	\$.50

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