

Aircel Analyzer Systems are designed to accurately and reliably measure moisture, carbon monoxide and oxygen concentrations in breathing, medical and industrial air supplies as well as provide alarms when safe levels are exceeded.

The Aircel Series 900 Moisture Analyzer utilizes the Advanced Capacitive Transducer (A.C.T.) moisture sensor technology to produce a rugged, fast responding, trace moisture sensor that lowers troubleshooting costs by permitting sensor replacement without discarding existing probe bodies. The Aircel Series 900 Analyzer features up to two software adjustable alarm setpoints, voltage or current analog output, and a user selectable dew point or concentration units.

Aircel Series 900 Moisture Analyzer offers several configurations to meet applications requirements of explosion-proof analyzers for natural gas to low-cost monitors designed to meet the needs of O.E.M. compressed air suppliers.



Series 900 Moisture Analyzer

Series 900 Features

- Wide dynamic moisture probe range.
- Selectable units (°C, °F, or ppm, moisture).
- High pressure.
- Active pressure correction.
- Remote sensor to 1000 ft.
- Large 4-digit LCD display.
- Adjustable alarm contacts.
- Non-volatile data memory.
- Analog output (voltage or current).

Moisture Probe		Electronics	
Type:	Aircel Series 50	Display:	4 digit LCD, 0.5" high
Range:	-202°F (130°C) to 68°F (20°C) dew/frost point	Alarm:	SPDT, 1A @ 120 VAC
Accuracy:	± 3.6°F (± 2°C)	Output:	0 to 10 VDC or 4-20 mA
Repeatability:	± .09°F (± 0.5°C)	Power:	120 VAC 50/60 Hz, 1W max.
Operating Temp:	-202°F (-130°C) to +158°F (+70°C)	Enclosures:	NEMA 4 9.5" W x 6.25" H x 3.5" D
Pressure Rating:	7000 psig		Panel 10" W x 5.25" H x 11.5" D
			Rack 19" W x 5.25" H x 11.5" D
			Portable 8.5" W x 3.00" H x 9.25" D

The Aircel Series 800 Moisture and Carbon Monoxide Analyzer is designed to accurately and reliably measure both moisture and carbon monoxide concentrations in breathing air or medical air supplies as well as provide alarms when safe levels are exceed. Aircel Series 800 moisture and carbon monoxide analyzer offers two independent analyzers in one great package with separate displays, outputs, and alarms for your convenience

The **Moisture Analyzer** offers the unique Advanced Capacitive Transducer (A.C.T.) moisture sensor using state-of-the-art technology to produce a rugged, fast responding, trace moisture sensor.

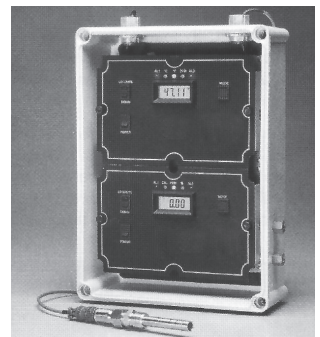
The **Carbon Monoxide Analyzer** provides an advanced electrochemical sensor with digitized output that is sent to a microprocessor based analyzer featuring: a digital display of carbon monoxide concentrations, up to two software adjustable alarm contacts with visual and audible alarms, and a voltage or current analog output that has user adjustable zero and span. In addition, an automatic calibration feature allows the user to easily perform periodic calibrations using certified span gases.

Series 800 Features

- Independent analyzers for each measurement.
- Microprocessor band electronics.
- Wide dynamic moisture probe range.
- Selectable units (°C, °F, or ppm, moisture).
- Direct reading carbon monoxide concentration.
- Two 4-digit LCD displays.
- Auto calibration (CO).
- Adjustable alarm contacts.
- Audible alarms.
- Analog output (voltage or current).
- O.E.M. packaging available.

Moisture Probe		Electronics		Carbon Monoxide Sensor	
Type:	Donaldson Series 50	Display:	4 digit LCD, 0.5" high	Type:	Donaldson COS-1
Range:	-202°F (130°C) to 68°F (20°C) dew/frost point	Alarm:	SPDT, 1A @ 120 VAC	Range:	0-2000 ppm
Accuracy:	± 3.6°F (± 2°C)	Output:	0-10 VDC or 4-20 mA	Resolution:	0.5% of range
Repeatability:	± .09°F (± 0.5°C)	Power:	120 VAC 50/60 Hz, 1W max.	Accuracy	±1%
Operating Temp:	-202°F (-130°C) to +158°F (+70°C)	Enclosures:	NEMA 4 11" W x 15" H x 5" D	Sample Flow:	100 to 200 cc/min
Pressure Rating:	7000 psig		Panel 10" W x 5.25" H x 11.5" D		
			Rack 19" W x 5.25" H x 11.5" D		

Series 800 Moisture & Carbon Monoxide Analyzer



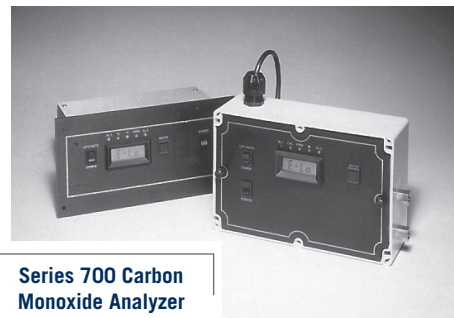
ANALYZERS SERIES

TECHNICAL SPECIFICATIONS



The Aircel Series 700 Carbon Monoxide Analyzer accurately and reliably monitors the carbon monoxide content of high pressure breathing air or medical air supplies and provides an alarm when safe levels are exceeded.

The Aircel Series 700 Carbon Monoxide Analyzer features an advanced electrochemical sensor that provides a digitized output sent directly to a microprocessor based analyzer offering a digital display of carbon monoxide concentration, up to two software adjustable alarm contracts with visual and audible alarms, and a voltage or current analog output that has user adjustable zero and span. The Series 700 also has an automatic calibration feature allowing users to easily perform periodic calibrations using certified span gases.



Series 700 Carbon Monoxide Analyzer

Series 700 Features

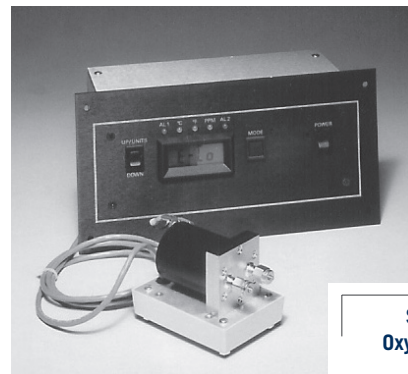
- Microprocessor based controller.
- Large 4-digit LCD display.
- Auto calibration.
- Adjustable alarm contacts.
- Audible alarms.
- Electrochemical sensor.
- Analog output (voltage or current).
- Direct reading carbon monoxide concentration.
- O.E.M. packaging available.

CO Sensor		Electronics	
Range:	0-2000 ppmv CO in air or inert gas	Display:	4 digit LCD, 0.5" high
Precision:	± 0.5%	Alarm:	SPDT, 1A @ 120 VAC
Sensor Life in Air:	Up to 2 years at -86°F (30°C)	Output:	0-10 VDC or 4-20 mA
Response Time:	90% in 30 seconds	Power:	120 VAC 50/60 Hz, 1W max.
Operating Temperature:	+23°F (-5°C) to +104°F (+40°C)	Enclosures:	NEMA 4 9.5" W x 6.25" H x 3.5" D
Operating Humidity:	0-99% RH non-condensing		Panel 10" W x 5.25" H x 6" D
Sample Flow:	100 to 250 cc/min recommended		Rack 19" W x 5.25" H x 6" D

The Aircel Series 200 Oxygen Analyzer utilizes a replaceable electrochemical cell. Advanced features are lower temperature coefficient due to diffusion barrier design, immunity to CO₂, and its wide range. It provides in excess of twelve months life in normal applications and is suitable for multibackground gas samples.

Series 200 Features

- Microprocessor based electronics.
- Large 4-digit LCD display.
- Direct reading oxygen concentration (0-9999 ppm).
- Auto ranging (0-100 ppm, 0-10,000 ppm, 0-100%).
- Auto calibration with air or span gases.
- Remote sensor module to 1000 feet.
- Adjustable alarm contacts.
- Analog output (voltage or current).
- Low temperature coefficient.
- O.E.M. packaging available.



Series 200 Oxygen Analyzer

Oxygen Sensor		Electronics	
Type:	Donaldson OS-2	Display:	4 digit LCD, 0.5" high
Range:	0-10,000 ppm	Alarm:	SPDT, 1A @ 120 VAC
Resolution:	0.1% of range	Output:	0-10 VDC or 4-20 mA
Accuracy:	1% of range	Power:	120 VAC 50/60 Hz, 1W max.
Sample Flow:	50-500 cc/min/d	Enclosures:	Panel 19" W x 5.25" H x 11.5" D
Calibration Interval:	30 days		Rack 10" W x 5.25" H x 11.5" D
Replacement Interval:	24 months*		
Recommended Storage Temp:	32-68°F (0-20°C)		



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