

## PRODUCT DATA SHEET

# 5920 Moisture Analyzer

Low parts per billion (ppb) gas analysis - ideal for critical moisture measurement applications

The 5920 is an easy-to-use process moisture analyzer that offers a wide range of performance features: multi-gas compatibility, exceptional accuracy, on-line verification, fast response speed, and wide measurement range. Equipped with an on-line verification system, this state-of-the-art analyzer is designed to rapidly build and maintain operator confidence in its analyses.

### Multi-gas compatibility

The 5920 combines the excellent multi-gas compatibility with an easy-to-use operator interface. A single, simple menu selection is all that is needed to reconfigure the 5920 for a new gas type. The 5920 is compatible with virtually all bulk, ultra-high-purity gases including inerts – helium (He), argon (Ar), neon (Ne), xenon (Xe), krypton (Kr) – hydrogen (H<sub>2</sub>), oxygen (O<sub>2</sub>), and nitrogen (N<sub>2</sub>).

### Exceptional accuracy

With an accuracy of  $\pm 1$  parts per billion by volume (ppbv) or  $\pm 10\%$  of reading, the 5920 is perfect for moisture applications that require stable and accurate results. Quartz-crystal technology and an on-line verification system combine to constantly provide assurance that the analyzer is continuing to provide you with this superior level of performance.

### Wide measurement range

The 5920 accurately measures from 1 to 150 ppbv. While this is the recommended operating range, the analyzer will provide trend indication up to 1000 ppbv, so that you can capture the nature of a process upset.



## KEY BENEFITS

- Quartz-crystal technology provides accuracy, speed, and calibration stability
- Online zero gas verification confirms analytical stability
- Intuitive, easy-to-use interface with keypad and display allows access to operating variables
- Rack-mount design makes the analyzer ideal for analytical carts
- Menu-driven gas selection eliminates all manual adjustments

## APPLICATIONS

- Continuous emissions monitoring system
- Spot monitoring
- Cylinder
- High purity gas production

## KEY MARKETS

- Semiconductor manufacturing
- LCD/OLED display manufacturing
- Air separation

## PERFORMANCE SPECIFICATIONS

<b>Compatible gases</b>	Inerts (He, Ar, Ne, Xe, Kr), H <sub>2</sub> , O <sub>2</sub> , N <sub>2</sub> (contact the factory to confirm compatibility with other gases)
<b>Range</b>	0 to 150 ppbv. Trend indication to 1000 ppbv
<b>Limit of detection</b>	1.0 ppbv nominal
<b>Accuracy</b>	±1 ppbv or ±10% of the reading, whichever is greater
<b>Sensitivity</b>	Better than 1 ppbv
<b>Response time</b>	80% of a 25 ppb step change in either direction in less than 10 minutes
<b>Inlet pressure</b>	138 to 345 kPa (20 to 50 psig). Specified performance is obtained when the inlet gas pressure is maintained within ±17 kPa (±2.5 psi)
<b>Exhaust pressure</b>	Atmospheric
<b>Sample flow requirement</b>	<0.5 L/min
<b>Inlet gas temperature</b>	0 to 100°C (32 to 212°F). Optimal results are obtained when the inlet gas temperature is maintained at 60°C (140°F)
<b>Outputs</b>	Four-line by 20-character LCD display One self-powered 4-20 mA, into 100-500 ohm load analog output; can be configured for loop-powered operation RS485 and RS232 serial ports
<b>Alarms</b>	System alarm, concentration alarm, and data valid 30 VAC or 60 VDC max, 10 VA or 1A max, resistive
<b>Environmental conditions</b>	Ambient temperature range 10 to 30°C (50 to 86°F). Optimal results are obtained when ambient is maintained within ±5°C (±9°F) Relative humidity 90%, noncondensing Pollution Degree 2 Maximum altitude 2,000 meters (6,560 feet) Installation Category II Indoor use only
<b>Utility requirements</b>	100-132 VAC or 230 VAC ±10%, 47-63 Hz, 185W Instrument air: 550 to 690 kPa (80 to 100 psi), -40°C dew point temperature
<b>Mounting configuration</b>	19-inch rack
<b>Dimensions (W x H x D)</b>	480 x 177 x 509 mm (19 x 7 x 20 in.)
<b>Net weight</b>	15.9 kg (35 lb)
<b>Approvals and certifications</b>	UL/CSA General Safety Requirements UL/CSA Class I, Division 2, Groups A, B, C, D T4. Complies with all Relevant European Directives

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