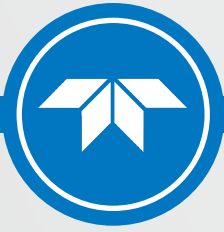


# Model 8801A

## Moisture Monitor



- Easy to Read Large Numerals
- Remote Power and Readout
- Universal AC Power Input and 12-24 VDC
- On-Screen Histogram and Trend Graph
- Isolated 4-20 mA Output Retransmits Measurement
- Optional MODBUS Interface

Model 8801A utilizes the state-of-the-art loop powered moisture sensor, combined with an intuitive user interface, within a din-rail panel mountable control unit. It can measure moisture content in gases in ranges of -100°C to 20°C dewpoint, and provide a 4-20mA output linear to the measurement units chosen. The Model 8801A incorporates an advanced nanopore sensor technology and measures the amount of water vapor molecules that have entered its pores. This unique sensor design allows quicker equilibrium between the inside and outside of the sensor, resulting in faster response to changes in water vapor content, better stability and repeatability.

## Features

- Provides remote display and power
- State-of-the-art electronics and software
- Advanced user-friendly interface
- Continuous status and diagnostics display
- On-screen histogram and trend graph
- Panel mounted DIN 43700 dimensional standard 5.39"W x 2.67"H panel cutout, 3" deep
- Separate terminal section pre-punched for cable grips
- Universal AC power supply and 12-24 VDC
- Virtual analyzer PC software for training and evaluation
- Units of measure: °C / °F dewpoint, ppmV, ppmW,  $\mu$ B H<sub>2</sub>O vapor pressure, grams of H<sub>2</sub>O/m<sup>3</sup>, Lbs H<sub>2</sub>O/10<sup>6</sup> standard cubic feet in natural gas
- Output: 4-20 mA sink or source (included)
- Alarm Relays: 3A, 250 VAC/30 VDC contacts (included)
- Options: 12-24 VDC, RS485/422 with Modbus Protocol

## Applications

- Natural Gas
- Petrochemical
- Industrial Gases
- Power Generation
- Furnace Gas / Heat Treating
- Air Dryers
- Pharmaceutical
- Aerospace
- Medical





<b>Moisture Sensor</b>	Range: -100° to 20°C
	Accuracy: ± 2°C temperature corrected
	Repeatability: 0.8°C
	Response Time: 95% of step change in 3 minutes
	Sample Flow: > 1 LPM
<b>Temperature Sensor</b>	-40° to 70°C ± 2°C
<b>Electrical</b>	Two automatic detection - self configuring power modes 1) 90-260 VAC, 47-440 Hz 2) 12-24 VDC, 10VA with the following I/O Isolated RS-422/485 (optional) Isolated 4-20 mA sink or source Alarm relays - 3A, 250VAC/30 VDC contacts  Insulation Resistance: > 100 MΩ at 500 VDC
<b>Mechanical</b>	ABS panel mount DIN 43700 dimensional standard - 5.39"W x 2.64"H panel cutout, 3" deep Weight: 1.5 Lbs (0.7 kg) NEMA 12 type protection gasketing optionally available
<b>Temperature Range</b>	Electronics: -40° to 85°C Operating: -20° to 70°C Storage: -30° to 80°C
<b>Miscellaneous Features</b>	NIST traceable calibrations Virtual analyzer PC software for training and evaluation - allows user to experience exact interface on own PC w/ voice explanations Units of measure: °C / °F dewpoint, ppmV, ppmW, µB H <sub>2</sub> O vapor pressure, grams of H <sub>2</sub> O/m <sup>3</sup> , Lbs H <sub>2</sub> O/10 <sup>6</sup> standard cubic feet in natural gas MODBUS: ASCII and RTU (optional)

<b>Configurator - 8801A.A.B</b> (example: 8801A.0.0)			
Option	Description	Option	Description
8801A	8801A Moisture Monitor Indicator		
<i>A - Display Options</i>		<i>B - Sensor Options</i>	
0	Panel mount display with A.O. and Relays	0	Standard dp moisture sensor with Sintered SS shield
L	12-24 VDC	S	Solid sensor shield
D	RS485/422 digital output with Modbus protocol	O2	O2 Cleaned Sensor

\* The analyzer also includes an 8801T - Moisture sensor with M12 Mating connector and 10 feet (3 meter) cable, sensor body with 100uM sintered SS shield. If solid sensor shield is required, contact factory for a quote



## Analytical Instruments

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