

DEWPOINT DUO™

Water AND Hydrocarbon Dewpoint Analyzer



NEW

KEY FEATURES

- ✓ **Simultaneous Measurement Of Water And HC Dewpoints**
- ✓ **Virtually Maintenance Free**
- ✓ **Fast, Continuous Measurements**
- ✓ **Highly Reliable**
- ✓ **No Consumables**
- ✓ **Accurate And Unambiguous**
- ✓ **Direct, First Principle Measurement**
- ✓ **No Calculation Or Model Errors**
- ✓ **Immune To Most Contaminants**
- ✓ **Works At Line Pressure**
- ✓ **No Moving Parts**
- ✓ **No Carrier Gas Or Replacement Parts**
- ✓ **Sensor Immune to Damage By Contaminants, Slugs Or Aerosols**

ZEGAZ Instruments DEWPOINT DUO™ is one instrument that simultaneously measures both the water and the hydrocarbon dewpoints.

It has an accuracy of ± 0.9 °F (± 0.5 °C), is immune to contaminants, and provides accurate, unambiguous measurements. It is based on the revolutionary CEIRS™ (Chilled-Evanescent IR Spectroscopy), a patented method. Since the IR beam does not travel through any gas, there are no false signals due to particulate scattering.



The dewpoint temperature measurement is NIST Traceable. The measurements are immune to variations in the ambient temperature.

The CEIRS™ method uses a highly inert, advanced ceramic sensor immune to contaminations. It is designed for remote operation at line pressure up to 2000psi. It provides 4 analog outputs, 3 digital alarms, RS-232 and RS-485 communication.

DEWPOINT DUO™ has unprecedented accuracy and reliability. It has been extensively tested, and provides unattended, continuous, and virtually maintenance free operation.

APPLICATIONS

- **Monitoring incoming gas quality at interconnects**
- **Monitoring the output of gas processing facilities**
- **Monitoring incoming gas at power plants**
- **Measurement of dewpoint at CNG facilities**

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SPECIFICATIONS

Performance

Dewpoint Measurement Range	108°F (60 °C) below ambient
Lowest Detectable Dewpoint	-22 °F (-35 °C)
Dewpoint Accuracy	±0.9 °F (±0.5 °C)
Measurement Time	2-15 minutes

Application Condition

Operating temperature	-4 to 140°F (-20 to +60°C)
Storage Temperature	-22 to 158°F (-30 to +70°C)
Pressure	Up to 2000psi (135bar)
Flow rate	1-2 SLM

Electrical and Communication

Input Voltage	100-264 VAC or 18-24 VDC
Power Usage	100W Peak, <30W average
Signal Outputs	4x4-20mA, 3xDO, 1xRS-232, 1xRS-485
Protocol	Modbus Gould RTU, Daniel RTU

Physical

Size (without sample system)	14"x14"x8" (355x355x200mm)
Weight	40lbs (18Kg)

Certification

Hazardous Location	CSA Class I, Div. 1, Group C&D Available
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