DewPoint DuoTM Water and Hydrocarbon Dewpoint Analyzer



KEY FEATURES

- Direct, First Principle
 - Measurement
- NIST Tested
- No Consumables
- Self Cleaning
- Immune to Most
- Contaminants
- Accurate and Unambiguous
- No Calculation or Model Errors
- Distinguishes Between
- Hydrocarbon and Water
- Fully Automated
- **Works at Line Pressure**
- **V**No Moving Parts
- ✓ No Carrier Gas or
- **Replacement Parts**
- Sensor Not Damaged by Contaminants, Slugs or Aerosols

ZEGAZ Instruments DewPoint Duo[™] water and hydrocarbon dewpoint analyzer is the most advanced dewpoint measurement system available, capable of measuring both dewpoints simultaneously.

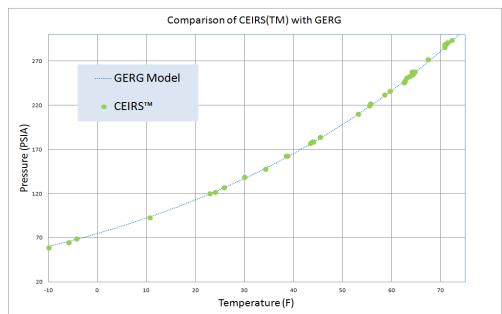
It has an accuracy of ±0.5 °C (±0.9 ° F), distinguishes between hydrocarbon and dewpoints water and highly accurate, provides measurements. It is based on CEIRS™ (Chilled-Evanescent Infrared Spectroscopy), a patented method.



ZEGAZ Instruments products are the only analyzers in the world that use CEIRS[™], a spectroscopic approach that determines the dewpoint, while unambiguously determining whether it was water or hydrocarbon dewpoint.

The CEIRS[™] method uses advanced IR technology. It is immune to contaminations. It is designed for remote operation at line pressure up to 2000psi. It provides 4 analog outputs as well as 3 digital alarms, and serial communications.

DewPoint Duo[™] has unprecedented accuracy and repeatability. The graph below shows the correlation between theoretical and DewPoint Duo[™] measured values.



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SPECI	FICATIONS

	Performance	
	Dewpoint Measurement Range ⁺	126°F (70 °C) below ambient temp.
	Lowest Detectable Dewpoint	-40 °F (-40 °C)
	Highest Detectable Dewpoint	+131°F (+55°C) 9 °F (5°C) below ambient temp.
	Measurement Time	2-12 Minutes
	Dewpoint Accuracy	±0.9 °F (±0.5 °C)
	Dewpoint Repeatability	±0.4 °F (±0.2 °C)
	Dewpoint Resolution	±0.1 °F (±0.1 °C)
	Application Condition	
Τ	Operating Temperature	-4 to 122°F (-20 to +60°C)
	Storage Temperature	-22 to 140°F (-30 to +60°C)
	Process Pressure	Up to 2000psi (135bar)
	Flow Rate	0.3-1.5 SLM
	ectrical and Communication	
	Input Voltage	100-264 VAC, DC Optional
	Power Usage	120W Peak, <30W Average
	Signal Outputs	4x4-20mA, 3xDO, RS-232, RS-485, Ethernet
	Protocol	Modbus Gould RTU, Daniel RTU
6	Physical	
Ι	Size (not including sample system)	14"x14"x6" (355x355x150mm)
	Weight (not including sample system	n) 40lbs (18Kg)
(Certification	
	Hazardous Location	CSA Class I, Div. 1, Group B,C&D, T6 ATEX/IECEX II 2 G Ex db IIB+H2 T6 Gb
	Other	IP66, CE, ISO 9001

+ The cooling range is a function of several different factors, including ambient temperature, flow rate, etc. and may be different

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