# **DewPoint Duo<sup>TM</sup>** 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<sup>™</sup> water and hydrocarbon dewpoint analyzer is the most advanced dewpoint measurement system available, capable of measuring both dewpoints simultaneously.

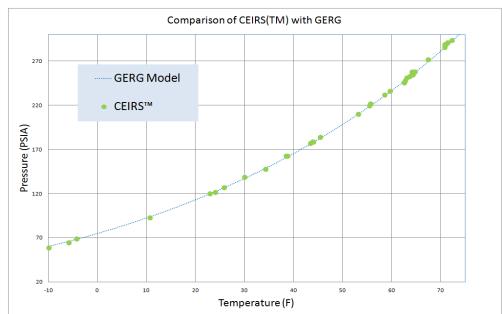
It has an accuracy of ±0.5 °C (±0.9 ° F), distinguishes between hydrocarbon and dewpoints water and highly accurate, provides measurements. It is based on CEIRS™ (Chilled-Evanescent Infrared Spectroscopy), a patented method.



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

The CEIRS<sup>™</sup> 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<sup>™</sup> has unprecedented accuracy and repeatability. The graph below shows the correlation between theoretical and DewPoint Duo<sup>™</sup> measured values.



### ZEGAZ Instruments (877) ZEGAZ-10

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#### **SPECIFICATIONS**

Performance		
Dewpoint Measurement	Range	126°F (70 °C) below ambient temp.
Lowest Detectable Dewp	point	-40 °F (-40 °C)
Highest Detectable Dew	point	+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		
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
Electrical and Communication		
Input Voltage		100-264 VAC, DC Optional
Power Usage		120W Peak, <30W Average
Signal Outputs		4x4-20mA, 3xDO, RS-232, RS-485
Protocol		Modbus Gould RTU, Daniel RTU
Physical		
Size (not including sample	e system)	14"x14"x6" (355x355x150mm)
Weight (not including sar	nple system)	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

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