Argentina

Tel: (+54 II) 5352 2500 Email: info@dastecsrl.com.ar Web: www.dastecsrl.com.ar



## **KEY FEATURES**

- **✓** Direct, First Principle Measurement
- ✓ Highly Reliable
- 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
- ✓ No Moving Parts
- ✓ No Carrier Gas or **Replacement Parts**
- ✓ Sensor Not Damaged by Contaminants, Slugs or **Aerosols**

ZEGAZ Instruments HCD5000™ hydrocarbon dewpoint analyzer is the most advanced dewpoint measurement system available.

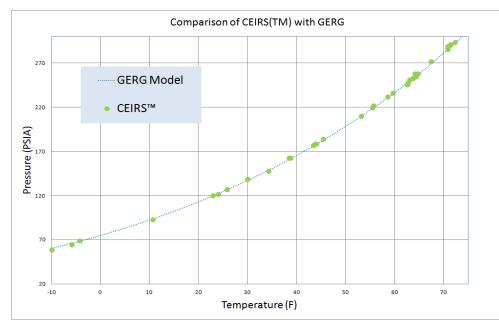
It has an accuracy of ±0.5 °C (±0.9 ° F), distinguishes between hydrocarbon and dewpoints water and highly accurate, provides measurements. It is based CEIRS™ (Chilledon Infrared Evanescent Spectroscopy), a patented method.



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. 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.

HCD5000™ has unprecedented accuracy and repeatability. The graph below shows the correlation between theoretical and HCD5000™ measured values.



# HCD5000<sup>TM</sup> Hydrocarbon Dewpoint Analyzer



Web: www.dastecsrl.com.ar



### **SPECIFICATIONS**

#### **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**

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 system)	14"x14"x6" (355x355x150mm)
Weight (not including sample 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
Ingress Protection	IP66, CE, ISO 9001