

WDP5000™

Water Dewpoint Analyzer



ZEGAZ Instruments WDP5000™ water dewpoint analyzer is the most advanced water dewpoint measurement system available. While most water analyzers measure water content and then calculate dewpoint, WDP5000™ measures the actual dewpoint at the supplied pressure.



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.

CEIRS™ technology has unprecedented accuracy and repeatability. It has been tested at NIST. The dewpoint temperature measurements are NIST traceable.



KEY FEATURES

- True DewPoint Measurement
- Works at Line Pressure
- First Principle
- Self Cleaning
- Immune to Most Contaminants
- Accurate and Unambiguous
- No Calculation Errors
- Fully Automated
- No Moving Parts
- No Carrier Gas or Replacement Parts
- Sensor Not Damaged by Contaminants, Slugs or Aerosols



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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 140°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, Ethernet
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
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