



DEWPOINT TRANSMITTER

-148° F TO +68° F DEWPOINT

-100° C TO +20° C DEWPOINT



Microprocessor Controlled

Compact & Reliable

Field Calibration

Ideal for Industrial Environments

Pressure Dewpoint -100° C and Below

High Capacitance Aluminum Oxide Sensor

Simple & Easy to Use

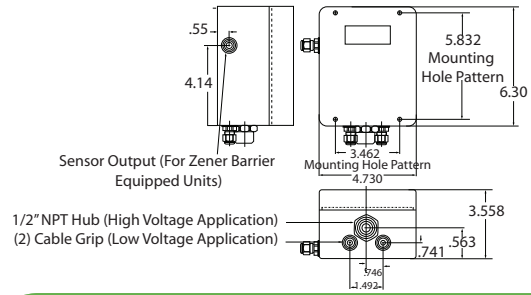


SPECIFICATIONS

Transmitter

Sensor Type:	High capacitance Al ₂ O ₃
Input Resolution:	0.1° C dewpoint
Indicators:	LCD with backlight, 3.5 digits and custom legends for units and mode, audio alert
Engineering Units:	Dewpoint in °F and °C, ppmv, g H ₂ O/m ³ , lbs H ₂ O/mm scf
Controls:	4 push buttons, all settings stored in EEPROM
Output Options:	4-20mA, 0-24mA or voltage outputs, linear to selected engineering units, programmable span and range, 0.1° C dewpoint resolution. RS-232, baud rate 9600, resolution 0.1° C dewpoint
Isolation:	Sensor is isolated from the power supply, analog output and RS-232.
Alarm Relays Option:	Two programmable alarm relays with programmable variable hysteresis, rated at 10A @240V. Failure indication programmable to trigger alarm relays.
Power Requirements:	100 - 240 VAC, 50 or 60 Hz, autoranging or by order 12VDC or 15-30VDC 0.5A
Connections:	Pluggable screw terminal block
Enclosure:	Polycarbonate, Nema 4/4x Dimensions W-12cm x H-16cm x D-9cm (W-4.7" x H-6.3" x D-3.5"); DIN 43700 - 8cm (3") deep.
Temperature range of electronics:	-10° to 50° C (14° to 122° F)
Optional Features:	a) Medical Breathing Air Monitoring and Alarm Option, complies with the recommendations of NFPA 99, 1996 edition b) On-board battery backed real-time clock option, facilitating Scheduled Timer Activated Single Point Self Calibration/Verification procedure for sample systems equipped with an electrically actuated switchover valve.
Warranty:	1 year.

Dimensions



Features

- 1 Compact and reliable. Continuously monitors air dryer performance, compressed air quality and dry gas moisture, from ambient dewpoint levels to as low as -148° F (-100° C).
- 2 The transmitter uses the state of the art microprocessor technology built-in intelligent features.
- 3 User friendly interface with LCD display and push buttons.
- 4 User selectable Engineering Units Dewpoint in °C or °F, ppmv, g H₂O/m³, lbs H₂O/ million scf.
- 5 Pressure correction feature.
- 6 Field calibration procedure is fully automated and the user is prompted through a simple one minute procedure, which requires no additional equipment.
- 7 Unit has indication for sensor open, short or electronic system failure, which can activate any of the alarm relays.

Available Options

Alarm relays can be programmed to switch at any dewpoint with variable hysteresis, making it ideal as an energy saving component in desiccant dryers.

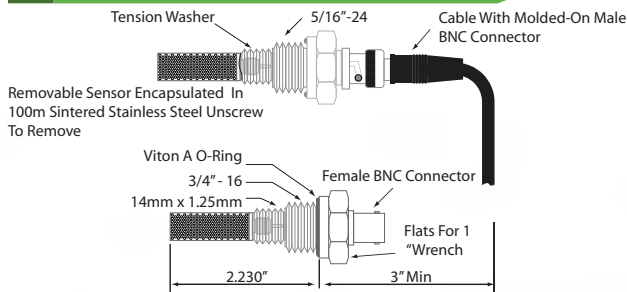
The analog current or voltage output can be programmed to span the full or a portion of the range and is linear to the selected engineering units.

The RS-232 interfaces into the serial port of any PC or Mac, for a simple operation with any standard communications program.

Typical Applications

- ◆ Monitoring and control of air dryers
- ◆ Plastic dryers
- ◆ Welding gases
- ◆ Laser gases
- ◆ Petrochemical feedstock gases
- ◆ Natural installations, transportation and distribution
- ◆ Clean rooms
- ◆ Glove boxes
- ◆ Cryogenic gases
- ◆ Heat treating furnaces
- ◆ Industrial specialty gases

Dimensions of Sensor Element



Class I, Division 1 Groups A, B, C, & D; Class II Groups E, F, & G;
Class I Division 2 Groups A, B, C, & D; Class II Groups F & G; EEx d [ia] IIB+H 2

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