

Data Sheet

SERIES XDT

Dewpoint Transmitter



Supplied by

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Call us on +44 (0)118 916 9420 | Email info@247able.com

Dewpoint Transmitter Series XDT

-100°C to + 20°C Dewpoint



Class I Division 1 Groups A,B,C, & D;
Class II Groups E, F, & G

CONFORMS TO JIS Z8806

APPLICATIONS

- Monitoring and control of air dryers
- Plastic dryers
- Welding gases
- Laser gases
- Petrochemical feedstock gases
- Natural gas processing, transportation and distribution
- Clean rooms
- Transformer and switch gear insulation gases
- Glove boxes
- Cryogenic gases
- Heat treating furnaces
- Industrial specialty gases
- Many more

Registered Address

ABLE Instruments & Controls Ltd
Cutbush Park, Danehill, Lower Earley,
Reading, Berkshire, RG6 4UT. UK.

Reading

Tel: +44 (0)118 9311188 | Email: info@able.co.uk

Aberdeen

Tel: +44 (0)1224 725999 | Email: ab@able.co.uk

Web

able.co.uk

E-commerce

247able.com



GENERAL

The Xentaur digital dewpoint transmitters are designed as compact, simple and reliable instruments, which will continually monitor air dryer performance, compressed air quality and dry gas moisture, from ambient dewpoint levels to as low as -100°C (-148°C).

APPLICATIONS

Xentaur dewpoint transmitters are used wherever the dewpoint in a gas is critical. Applications include: monitoring and control of air dryers, plastic dryers, welding and laser gases, petrochemical feedstock gases, natural gas, clean rooms, glove boxes, transformer and switch gear insulation gases, cryogenic gases, heat treating furnaces, industrial specialty gases and many more.

ELECTRONICS

The transmitter electronics take full advantage of state of the art microprocessor technology and offer many advanced intelligent features. With optional dual alarms, analog and digital outputs, the Xentaur dewpoint transmitters can be used as indicators, alarm units or controllers.

PROGRAMMABLE ALARM RELAYS OPTION

The two optional alarm relays can be independently programmed to switch at any dewpoint with variable hysteresis, which makes the transmitter ideally suited as an energy saving controller for desiccant dryers in "dewpoint demand" mode or safety cutoff in process control, high power laser, etc. The status of the relays is shown on the display with flashing HI or LO indicators while displaying the dewpoint.

ANALOG AND DIGITAL OUTPUTS OPTIONS

Analog and digital outputs are isolated from the sensor. 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.

USER-FRIENDLY INTERFACE

The instrument is operated through a menu driven user interface consisting of a custom LCD display with backlight, and four push buttons.

ENGINEERING UNITS

The user can select from the following engineering units. Dewpoint in °C or °F, ppmv, g H₂O/m³, lbs H₂O/ million scf.

PRESSURE CORRECT FUNCTION

Results are displayed at sensor pressure or by pushing the Pressure Correct key at a user selectable alternate pressure, such as the line pressure.

SPANCHECK IN THE FIELD

This field calibration procedure is fully automated and the user is prompted through a simple one minute procedure, which requires no additional equipment.

ERROR INDICATION

The instrument has indication for sensor open, short or electronic system failure, which can activate any of the alarm relays.

NIST / NPL TRACEABILITY OPTION

Certificates for NIST and NPL traceability are available upon request. Instruments can be recertified periodically at Xentaur's laboratories.

SAME TRANSMITTER - MULTIPLE CONFIGURATIONS



Model XDT-OEM is a stand alone board suitable for mounting in existing enclosures. Connections are made through a pluggable screw terminal block which allows cables to leave the board vertically or horizontally.

The electronic board can be broken into two parts and sandwiched to accommodate space constraints.



Model XDT-PM houses the transmitter in a panel mount industry standard DIN 43700 box, 7.5cm deep. Connections are made through a pluggable screw terminal block.

The panel mount model is available with the push buttons on the outside of the front panel (shown above) or with the push buttons hidden behind the front panel.



in a NEMA 4 (IP65) enclosure. Ideally suited for industrial environments.

Can be ordered UL approved for use in Hazardous Locations Class I Division 2 Groups A, B, C & D; Class II Groups F & G. And optionally Providing Intrinsically Safe output for use in Hazardous Locations Class I Division 1 Groups A, B, C, & D; Class II Groups E, F & G.

Model XDT-NEMA houses the transmitter

Also Available: XDT in explosion proof enclosure, UL approved for use in Hazardous Locations Class I Division 1 Groups B, C & D; Class II Groups E, F & G. Provides Intrinsically Safe output for use in Hazardous Locations Class I Division 1 Groups A, B, C & D; Class II Groups E, F & G

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