

**Easy To Use User Interface**

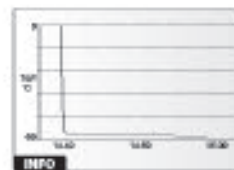
The DP420 has a versatile and easy-to-use, menu-based user interface and a clear graphical LCD display with data-logger function. It can also be used as a tool for reading the output of fixed dewpoint transmitters.

**Various Display Variables**

The DP420 displays one to three parameters at a time, either numerically or graphically. Several humidity units can be selected. In addition, the DP420 includes conversion from gas pressure dewpoint to ambient pressure dewpoint.

**Features And Benefits**

- Designed for industrial spot-checking and field calibration
- Three models: accurate measurement ranges from -60°C to +20°C (-76°F to +68°F)
- Low-maintenance need due to superior long-term stability
- Sensor withstands condensation
- Fast response, enhanced by sensor purge option
- Easy-to-use user interface
- Data can be logged and transferred to a PC via Link software
- Compact, small and light
- NIST traceable (certificate included)



		p, 1000mg
TdM	5.79	°C
T	24.16	°C
RH	30.56	%

The graphical display helps the user to know when the dewpoint plateau is reached.

**CPN**

Part Numbers	Description
38441135	Dewpoint & Temperature Transmitter - Stand Alone
38444451	Transmitter cable (15m)
38444469	Transmitter cable (30m)
38441119	Miniature Dewpoint Transmitter
38445235	Hand-Held Dewpoint Meter



This sector provides products, services and solutions to enhance the efficiency and productivity of our commercial, industrial and process customers. Our Ingersoll Rand brand products include tools, pumps, material and fluid handling systems, microturbines, air compressors and air system components.

# Dewpoint Meters and Transmitters



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## for Low Dewpoint Applications



DP417

### DP400 Dewpoint And Temperature Transmitter

The Ingersoll Rand dewpoint and temperature transmitter is designed for industrial applications where the moisture content in the compressed air pipeline is critical to the process. Typical applications include compressed air drying, filtration and process control. The device is very reliable, easy to use and economical to maintain.

### Performance

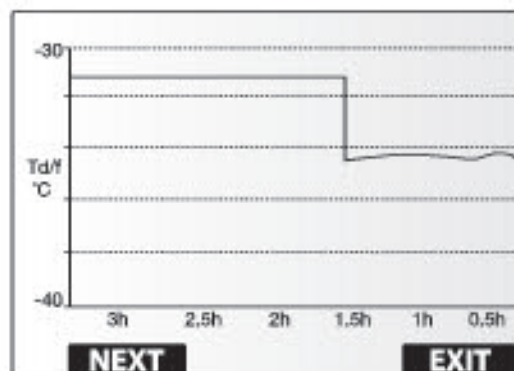
The long-term high performance is achieved with technology, which includes innovations like the patented auto calibration feature. Because of sensor's fully innovative design, the transmitter performs exceptionally well in applications that occasionally experience process water spikes, such as pipeline condensation during a system failure or start-up. The sensor is also immune to particulate contamination, oil vapor and most chemicals, and is insensitive to the flow rate.

### Long Calibration Interval

The transmitter has one of the longest calibration intervals available, typically two years. Additionally, the DP420 from Ingersoll Rand can be used to confirm the performance without disconnecting the transmitter.

### Low Maintenance Need Due To Innovative Auto-Calibration

The transmitter uses a patented auto-calibration procedure to detect measurement inaccuracies and automatically make corrections to the calibration works while the process is running. Usually the user will not even realize the process has taken place.



### Graphical Measurement Trend and History Display

The stand-alone version comes with a large numerical and graphical display with a multilingual menu. It allows the user to monitor measurement trends and up to 1-year history.



IEO

### Easy Installation

Can be connected to Ingersoll Rand Intellisys Energy Optimizer (IEO) for total control and monitoring of your compressed air system.

### Features And Benefits

- Measures dewpoints from  $-50^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$  ( $-58^{\circ}\text{F}$  to  $+176^{\circ}\text{F}$ ) with the accuracy of  $\pm 2^{\circ}\text{C}$  ( $\pm 3.6^{\circ}\text{F}$ )
- Withstands condensation
- Unique auto-calibration feature
- Alarm relays, local display and main power supply module are standard
- NIST traceable (certificate included)
- 3 analog outputs and a serial interface (2 @ 4-20 MA)



DP410

### DP410 Miniature Dewpoint Transmitter

The Ingersoll Rand dewpoint transmitter is a miniature dewpoint measurement instrument designed for industrial applications like air dryers and plastic dryers. Due to its compact size and low-maintenance technology, dewpoint measurement can now be included with most system controllers.

### Small, Rugged And Intelligent

The transmitter is designed for extreme conditions that require protection against dust, dirt and splashed water. The transmitter can be installed directly into pressurized systems up to 50 bar (725 psia) maximum pressure.

### Features And Benefits

- Miniature-size dewpoint transmitter for e.g. small industrial dryer applications
- Long calibration interval saves maintenance costs
- Dewpoint measurement range  $-50^{\circ}\text{C}$  -  $+60^{\circ}\text{C}$  ( $-76^{\circ}\text{F}$  -  $+140^{\circ}\text{F}$ ) with an accuracy  $\pm 3^{\circ}\text{C}$  ( $\pm 5.4^{\circ}\text{F}$ )
- Withstands condensation
- Fast response time
- Can be installed directly into systems at 50 bar (725 psia) maximum pressure
- IP65 (NEMA 4) housing protects from dust, dirt and splashed water
- Compatible with Ingersoll Rand's hand-held dewpoint meter DP420
- NIST traceable (certificate included)
- Output 4-20 MA



DP420

### DP420 Hand-Held Dewpoint Meter For Spot-Checking Applications

The Ingersoll Rand hand-held dewpoint meter DP420 measures dewpoint temperature accurately over a wide measurement range. The probe may be inserted directly into pressurized processes, and it responds rapidly from ambient to process conditions. The sensor withstands condensation and fully recovers from getting wet.