



**Humidity  
under  
Control**

Split Beam reflex  
CHILLED-MIRROR  
Hygrometers  
DEWRay  
DEWRay On-line

Bi-Ceramic CAPACITIVE  
Hygrometers  
DEWCom  
DEWRanger

Founded by Andrew MICHELL

**DEWCom 2-Wire Dewpoint Transmitter**

A low cost, 2-wire, loop powered rugged dewpoint transmitter for continuous measurement of the moisture content of compressed air or process gas.

**KEY FEATURES**

- -100°C to +20°C dewpoint range
- Measurement range 0.01 to 23,000 ppm(V)
- 2-wire
- 8 to 36 V DC operation
- Linear 4-20 mA signal
- Ingress protection IP65
- Rapid response time
- Long term calibration stability
- Traceable to National Standards





## TECHNICAL SPECIFICATION DEWCom Transmitter

Measurement Range (dewpoint)	-100 to +20°C dew point
Accuracy (dewpoint)	±2°C dew point
Response Time	1 min to T95 (dry to wet)
Repeatability	0.5°C dew point
Calibration	Traceable 7 point calibration certificate

## ELECTRICAL INPUT/OUTPUT

Output Signal	4-20 mA current source, configurable over the entire range Dew point -100 to +20°C -148 to +68°F 0,01-23,000 ppm(v) ppm(v) output or non-standard dew point range may be specified at time of order
Supply voltage	8 - 36 VDC
Load Resistance	Max 660 Ω @ 24 V 160 Ω @ 12 V
Current Consumption	23mA max
CE marked	

## OPERATING CONDITIONS

Operating Temperature	-40 to +60°C
Operating Humidity	0-100% RH
Operating Pressure	40 MPa (450 Barg) max
Flow Rate	0.2 to 5 l/min mounted in standard sampling block; 0 to 10 ms <sup>-1</sup> direct insertion
Temperature Coefficient	Temperature compensated across operating temperature range



### MECHANICAL SPECIFICATIONS

Ingress Protection Sensor	IP65	
Housing Material	Stainless steel	
Dimensions	114mm x 30mm dia	
Weight	170g	
Filter	5µm sintered guard	
Interchangeability	Fully interchangeable without need to set or calibrate on site	
Fault Conditions (factory programmed)	Condition	Output
	Sensor fault	23 mA (or 3.5mA, programmable)
	Under-range dew point	4 mA
	Over-range dew point	20 mA

### DEWRanger Portable Hygrometer

A compact and easy to use **portable hygrometer** which includes an integral sampling system for quick measurement of compressed air or process gas moisture content.

### KEY FEATURES

- -100°C to +20°C dewpoint range
- Calibration traceable to international standards
- Rapid response
- Rugged IP 66 enclosure
- Line or atmospheric dewpoint measurement
- Integral sampling system
- Integral data-logger
- Graphic display
- Charging from AC source or 12V DC

