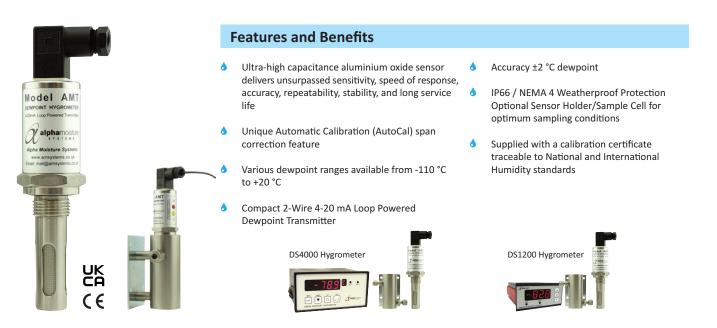


AMT Dewpoint Transmitter for General Applications



AMT Dewpoint Transmitter is a 2-wire 4-20 mA loop-powered transmitter that continuously measures moisture in process gas or compressed air. The 4-20 mA linear output signal can be factory configured for any of the following moisture units:-°C or °F dewpoint, ppm(V), ppb(V), g/m³, and lb/MMSCF.

At the heart of the AMT Dewpoint Transmitter is our ultra-high capacitance aluminium oxide sensor, which delivers unsurpassed sensitivity, speed of response, accuracy, repeatability, stability, and long service life. Every unit is supplied with a Calibration Certificate traceable to International Humidity Standards, guaranteeing accuracy to ± 2 °C dew point.

The unique Automatic Calibration (AutoCal) feature is standard on all AMT Transmitter models and allows the user to conduct span corrections to ensure optimum accuracy between laboratory calibrations. AutoCal is operated using two small buttons on the side of the body.

AMT is designed to withstand a maximum pressure of 35,000 kPa (350 bar) and extreme environmental conditions. The rugged stainless steel construction provides protection to IP66 / NEMA 4X.

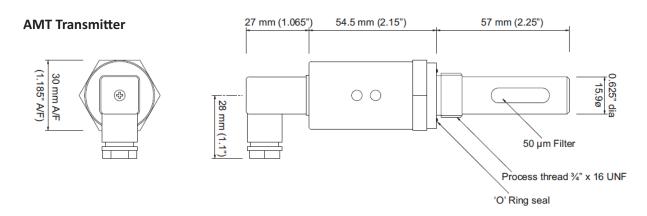
The AMT Transmitter is extremely easy to install and operate, requiring little or no maintenance. The advanced DS4000 or the standard DS1200 Hygrometers can display dewpoint in a range of units up to 1000 meters from the AMT Transmitter with the appropriate cable.

AMT - Dewpoint Transmitter Technical Data

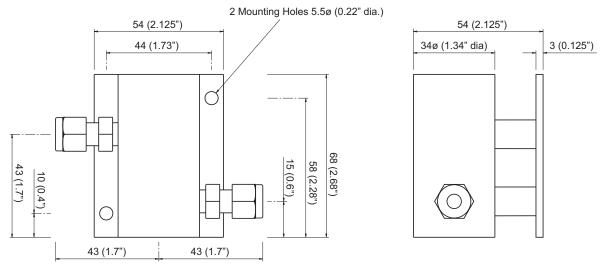
Transmitter Type	2-Wire 4-20 mA Loop Powered Dewpoint Transmitter
Sensing Element	Ultra-High Capacitance – Aluminium Oxide Type
Output Signal	Linear 4-20 mA with selectable engineering units and fault indication
Power Supply	12-28 Vdc Reverse Polarity Protected
Dewpoint Ranges	Between -120 °C to +20 °C (-184 °F to +68 °F) dewpoint. See How to Order on page 3
Electromagnetic Compatibility (EMC)	Complies with BS EN ICE 61326-1
Accuracy	± 2 °C dewpoint (UK National Physical Laboratory traceable for range -90 °C to +20 °C)
Repeatability	Better than ±0.3 °C dewpoint
Operating Temperature	
(Ambient and Process)	-20 °C to 60 °C
Operating Pressure (Process)	From 1 kPa (0.01 bara) to Maximum 35,000 kPa (350 bara)
Operating Humidity (Ambient)	Maximum 95 %RH Non-Condensing
Storage Temperature	-20 °C to 70 °C
Field Calibration	AutoCal span check and correction are performed using two buttons on
	the Transmitter body. Locked in normal operating mode to avoid tamper.
	We recommend AutoCal is repeated every 2-3 months.

Factory Calibration	Supplied with a calibration certificate traceable to National and International
	Humidity standards. We recommend annual laboratory calibration
Sample Flow Rate	Flow independent but ideally 2 to 5 litres per minute. Max: 25 litres/min
Cable Terminations	IP66 / NEMA 4X rated, size C, DIN EN 175301 connector at the Transmitter and
	other end terminated with bootlace ferrules
Cable	Supplied with 2m standard cable. Nominal diameter 3.4 mm,92 ohms/km at 20 $^\circ$ C
Mechanical Connection	3/4" UNF (16tpi) with integral Viton "O" ring seal
Isolation	Sensing Element connected to the 4-20 mA loop but isolated from Transmitter body
Transmitter Body	316 Stainless Steel
Sensor Protection	316 Sintered Stainless Steel Filter – 50 micron
Probe Material (Wetted Parts)	316 Stainless Steel
Ingress Protection	IP66 / NEMA 4X when Connector coupled to Transmitter
Manufacturer's Warranty	24 months in case of defective parts or faulty workmanship

Dimensions

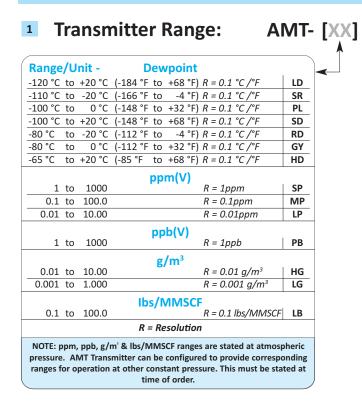


SH-AMT Transmitter Holder

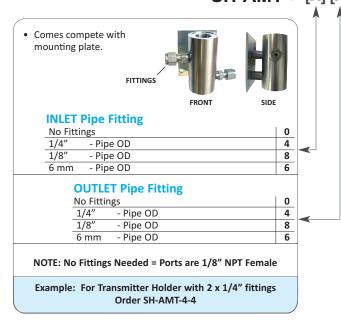


Note: The Assembly is shown with 1/4@ OD tube fittings. The dimensions across the tube fittings will vary for all other size fittings.

DS4000 Hygrometer Display Technical Specifications - See Datasheet - Document No. 3037 DS1200 Hygrometer Display Technical Specifications - See Datasheet - Document No. 3039



Transmitter Holder with Fittings 3 **SH-AMT +** [X] [X]

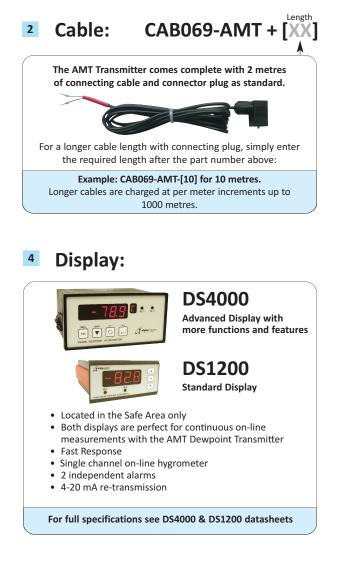


Recommended Related Products

Custom-Compact Sampling Systems based on the DS4000-AMT Hygrometer System



Alpha Moisture Systems Limited. Registered Office: Alpha House 96 City Road, Bradford, BD8 8ES. UK.



Corrosive Gases: The Sensor should not be exposed to corrosive gases (or corrosive contaminants in the gas sample) as these can chemically attack the sensor, impairing calibration accuracy and/or damaging it beyond economic repair. Examples of such gases are mercury (Hg), ammonia (NH_3), chlorine (Cl_2) etc. Strong oxidising agents such as ozone (O₃) should also be prevented from coming into contact with the sensor.

Custom-Compact Sampling Systems based on the DS1200-AMT Hygrometer System

Registered in England and Wales No. 3902302

VAT Registration No. GB607207563

WEEE Producer Registration No. WEEE/EA0067TX



1869 AMT-Ex pd120123-lss-8

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Product specification may be subject to change.

CERTIFICATE No. FM35 BS EN ISO 9001:2015

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3/3