## VAISALA

# DMT152 Dewpoint Transmitter for Low Dew Point Measurement in OEM Applications



The small and powerful DMT152 measures dew point down to -80 °C.

## **Features/Benefits**

- Compact
- Accurate
- Vaisala DRYCAP® technology with a polymer sensor
- Measures dew point down to -80 °C (-112 °F )
- Reduced maintenance costs due to long calibration interval
- Fast response time
- Withstands condensation
- NIST traceable
- Applications: compressed air, plastics drying, dry chambers, pure gases, and high-voltage circuit breakers

The Vaisala DRYCAP® Dewpoint Transmitter DMT152 is designed for measuring low dew point in OEM applications, even down to -80°C. The excellent long-term stability and reliability of its performance is based on the latest DRYCAP® polymer sensor technology.

## Low Maintenance

The DMT152 mechanics have been designed for harsh environments requiring protection against dust, dirt, and splashed water.

The DRYCAP® technology has a low maintenance need due to its excellent long-term stability and durability against condensation.

## **Applications**

The DMT152 is an ideal choice for industrial applications where it is necessary to control very low humidity. Most typical areas of use are air and plastics dryers, dry chambers, pure gases, and highvoltage circuit breakers.

The DMT152 measures accurately and reliably also in the challenging combination of low humidity and hot air, which is typical in plastics drying.

#### 上海博众测量技术有限公司

Bodhi (Shanghai) measurement technology Co.,Ltd. NO.32,ShuPing Road,JiadingDistrict,ZIP201808, Shanghai R.P.China

TEL: 0086 21 6630 8161/62/63 FAX: 0086 21 6630 8167

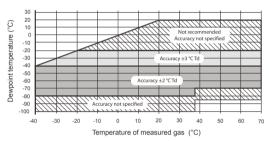
## **Technical Data**

## **Measured Variables**

option 2 -100 ... 0 °C (-148 ... +32 °F) T<sub>d</sub>
option 3 user-specified output scaling
when dew point is below 0 °C (32 °F) the transmitter outputs

when dew point is below  $0 \, {}^{\circ}C$  (32  ${}^{\circ}F$ ) the transmitter outputs frost point

Accuracy over temperature range



Response time 63 % [90 %] at a gas temperature of +20 °C (+68 °F) and pressure of 1 bar

Accuracy at +20 °C (+68 °F),

1013 mbar  $\pm (0.2 \text{ ppm} + 20 \% \text{ of reading})$ 

## **Operating Environment**

### **Outputs**

Two analog outputs (scalable)	4 20 mA, 0 20 mA (3 wire)
	0 5 V, 0 10 V
Accuracy of analog outputs	$\pm 0.01 \text{ V} / \pm 0.01 \text{ mA}$
Digital output	RS485 (2-wire)
Alarm-level indication by analog signal	user selectable
Purge information	5 V, 10 V, 20 mA or LED

General Vaisala DRYCAP® 180U Sensor Thin-film capacitive polymer sensor Recommended calibration interval 2 years Operating voltage with RS485 output 11\* ... 28 VDC voltage output 15\* ... 28 VDC 21 ... 28 VDC current output \*For extended temp. down to 40 °C (40 °F) or pressure up to 50 bar (725 psia), the supply voltage is 21 ... 28 VDC. Supply current normal measurement 20 mA + load current max. 220 mA pulsed during self-diagnostics Supply voltage fluctuation max. 0.3 V External load for voltage output min. 10 kOhm max. 500 Ohm current output AISI316L Housing material (wetted parts) Stainless steel mesh filter Filter body AISI303, mesh

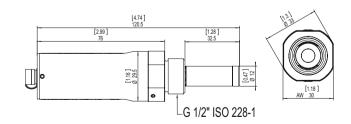
AISI316L, grade 18 µm

Complies with EMC standard EN61326-1, Electrical equipment for measurement control and laboratory use - EMC requirements;

Industrial environment

## **Accessories**

Connection cable for MI70 hand-held indicator	219980
USB cable for pc connection	219690
Sampling cells (available for ISO G½")	
basic sampling cell	DMT242SC
with Swagelok 1/4" male connectors	DMT242SC2
with a quick connector and leak screw	DSC74
two-pressure sampling cell	DSC74B
NW40 flange	225220SP





## 上海博众测量技术有限公司

Bodhi (Shanghai) measurement technology Co.,Ltd. NO.32,ShuPing Road,JiadingDistrict,ZIP201808,

Shanghai R.P.China

TEL: 0086 21 6630 8161/62/63 FAX: 0086 21 6630 8167