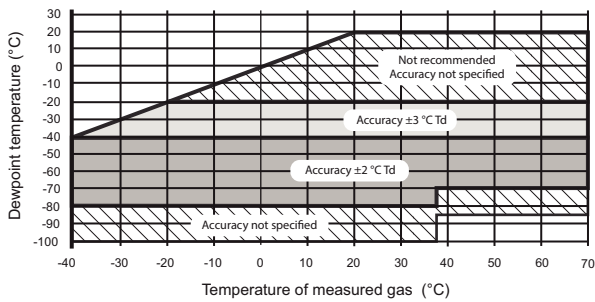


Technical Data

Measurement Performance

Sensor	Vaisala DRYCAP® 180U Thin-film capacitive polymer sensor
Recommended calibration interval	2 years
Dew Point Temperature	
Measurement range	-80 ... -10 °C (-112 ... +14 °F) T _d
Accuracy	
-80 ... -40 °C (-112 ... -40 °F)	±2 °C (3.6 °F) T _d
-40 ... -20 °C (-40 ... -4 °F)	±3 °C (5.4 °F) T _d
Non-calibrated range	-100 ... +20 °C (-148 ... +68 °F) T _d

Accuracy over temperature range:



Typical response time 63 % [90 %] at a gas temperature of +20 °C (+68 °F) and pressure of 1 bar:	
-10 ... -80 °C T _d	0.5 min [7.5 min]
-80 ... -10 °C T _d	2 s [5 s]
Typical long-term stability	Better than 2 °C (3.6 °F) /year
Concentration by Volume (ppm)	
Measurement range (typical)	0 ... 500 ppm
Accuracy at +20 °C (+68 °F), 1013 mbar	±(0.2 ppm + 20 % of reading)

Operating Environment

Temperature	-40 ... +70 °C (-40 ... +158 °F)
Relative humidity	0 ... 100 %RH (up to +20 °C/+68 °F)
Pressure	0 ... 50 bar (725 psia)
Measured gases	Non-corrosive gases
Sample flow rate	No effect on measurement accuracy

Accessories

Connection cable for MI70 hand-held indicator	219980
USB cable for pc connection	219690
NW40 flange	225220SP
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

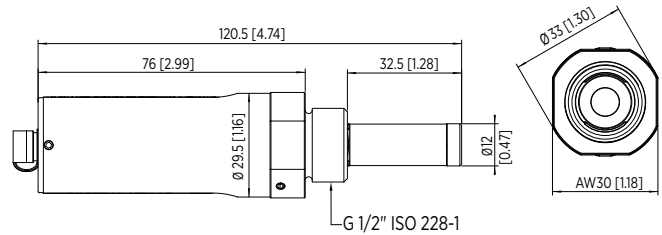
Inputs and Outputs

Two analog outputs (scalable)	4 ... 20 mA, 0 ... 20 mA (3 wire) 0 ... 5 V, 0 ... 10 V
Accuracy of analog outputs	±0.01 V / ±0.01 mA
Digital output	RS-485 (2-wire)
Alarm-level indication by analog signal	User selectable
Purge information	5 V, 10 V, 20 mA or LED
Operating Voltage	
RS-485 output	11 ¹⁾ ... 28 VDC
voltage output	15 ¹⁾ ... 28 VDC
current output	21 ... 28 VDC
Supply Current	
normal measurement	20 mA + load current
during self-diagnostics	Max. 220 mA pulsed
Supply voltage fluctuation	Max. 0.3 V
External Load	
voltage output	Min. 10 kΩ
current output	Max. 500 Ω

1) For extended temp. down to -40 °C (-40 °F) or pressure up to 50 bar (725 psia), the supply voltage is 21 ... 28 VDC.

Mechanical Specifications

Housing material (wetted parts)	AISI316L
Stainless steel mesh filter	Filter body AISI303, mesh AISI316L, grade 18 μm
Mechanical connections	ISO G½", NPT ½", UNF 3/4" - 16"
Housing classification	IP66
Storage temperature range	-40 ... +80 °C (-40 ... +176 °F)
Weight (ISO G½")	190 g (6.70 oz)
Complies with EMC standard EN61326-1, Electrical equipment for measurement control and laboratory use - EMC requirements; Industrial environment	



Dimensions in mm (inches)

