

OM375 DEW POINT TRANSMITTER

Compact Dew Point Temperature Transmitter for OEM Applications

Application:

The exact monitoring of dew point temperature in compressed air systems, dryers for plastic and other industrial processes is becoming increasingly more important. The OM375 is designed for measurement of low dew points in OEM applications down to -60°C. The core of the transmitter is the monolithic measure¬ment cell type HMC01 developed by Omicron Sensing in thin-film technology. An autocalibration procedure which is integrated in the device and years of experience in low humidity adjust-ment make an accuracy of <2°C Td (± 3.6 °F Td) possible. The transmitter has one analogue output for dew point, frost point or ppm volume concentration.



Technical Data:

Ι	Measuring Quantities							
	Dew Point (Td)							
	Dew Point Sensor				HMC01			
	Measuring Range			:	-25°C to	+ 65°C		
	Accuracy			:	~ 80			
	Traceable to intern. standards, ad	ministrate	ed by		୍ଚି 60 ଥୁ 40			
	NIST, PTB, BEV	ed by						
	Response Time t		ьт Э ФС та		/10°C Td	(//°F /		
	Response Time t_{90} : 80 s						$Td \longrightarrow -40 \text{ F Td}$	
	100		10 0 10		20010			
	Volume concentration							
	Measuring range Accuracy at 20 C (68 F) and 10		: 20 : 5p			lding		
	Outputs		0 101/		1			
	Selectable and scalable analogue output for Td, Tf, Wv				-1mA< I,< 1 R < 500 Ohn			
	General							
			21 201	DC				
	Supply Voltage Current Consumption at 24V DC	:	2128V DC voltage output: typ. 40mA / during autocalibration: 100m					mA
		·	current output: typ. 80mA / during autocalibration: 100r					
	Pressure Range	:	020bar					
	Housing / protection class	:	Al Si Cu 3	-				
	Electrical connection	:	M12 con					
	Sensor protection Working temperature range		stainless steel sintered filter probe: -4070°C (-40158°F)					
	working temperature range	•	electroni		-4060°C			
	Storage temperature range	:	-4060°				/	
	Electromagnetic compatibility	:			EN61326-2	-3	ICES-003 ClassB	
	according to		Industria	l Env	ironment		FCC Part15 ClassB	5



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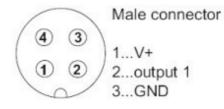
Dimensions in mm

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HOW TO ORDER

spanner width: 27 or 24 feedthrough 6 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 28 (1 1) 100 (4°) 20 (1 1) 100 (4°) 20 (1 1) 2

Connection Diagram



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🌣 Hardware Confi	guration:	OM375
Nominal Size(mm) Pressure range	100 up to 20bar (29 psi)	Т
Pressure tight	G1/2" male thread	E HAO3
feedthrough	1/2" NPT thread 5/8"-18 UNF	HAO7 HAO8

Output Configuration :

Physical parameters	:	dew point tempe	erature	Td	(°C/° F)	output	С
of the output		frost point temp	perature	Tf	(°C/° F)		D
		volume concent	tration	Wv	(ppm)		Р
Type of output signal	:	0-10V					3
		4-20mA					6
Measured value units	:	metric / SI					
		non metric / US	I.				E01
Scaling of Td/Tf-output (in °C or °F)	:	-4060 (Td/Tf0 1050 (Td/Tf0		-6020) (Td/Tf65) "	Other Td/Tf-scaling refer to data sheet T-Scalings"	Select accorcding to order guide (Tdxx or Tfxx)
ppm range Wv	:	0500ppm	(X01) (X02) (X03)		other measuring	j range:	select according to Ordering Guide
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