



Dew point sensor / transmitter in compact design
with display

Models Select Chart

Hardware Configuration			
Model	Transmitter Switch	T	S
Pressure Range	Up to 20bar Up to 100bar (1450psi)	E I	E I
Pressure tight Feed through	G1/2" male thread 1/2" NPT thread	HA03 HA07	HA03 HA07
Display	Without display With display	D08	D08
Software Configuration		Select according to Ordering guide (C,D,P)	
Physical parameters dew point temperature Td [°C/°F] (C) output/relay 1 Of the outputs/relays frost point temperature Tf [°C/°F] (D) output/relay 2 Volume concentration Wv [ppm] (P)		Select according to Ordering guide (C,D,P)	
Type of output Signals	0-1V 0-5V 0-10V 0-20mA 4-20mA	1 2 3 5 6	
Measured value units	metric/SI For T/Td/Tf non metric / US	E01	E01
Scaling of Td/Tf-output -40...60 (Td/Tf02) -60...20 (Td/Tf65) Other Td/Tf-scaling refer (in °C or °F) -10...50 (Td/Tf03) to data sheet „Scaling of the outputs“		Select according to Ordering guide (Tdxx/Tfxx)	
ppm range Wv range:_____	0...100ppm (X01) 0...500ppm (X02) Other measurement 0...1000ppm (X03)	Select according to Ordering guide	
Standard for configuration CC R1:-40 ⁰ C(-40 ⁰ F) R2:-35 ⁰ C(-31 ⁰ F) 2 ⁰ C(35.6 ⁰ F) Setting of alarm _____ output hysteresis2: _ Other set points hysteresis1: _			SP

Specifications:-		
Dew point sensor	:	HMC01
Measuring range	:	-60...60°C Td (-76...140°F Td)
Accuracy	:	Traceable to intern. Standards, administrated by NIST, PTB, BEV...
Response time t 90	:	80 sec. -20°C Td → -40°C Td (-4°F Td → -40°F Td) 10 sec. -40°C Td → -20°C Td (-40°F Td → -4°F Td)
Measuring range		20...200,000ppm
Accuracy at 20°C (68°F) and 1013mbar	:	±(5 ppm + 9 % from measured value)
Tx two freely selectable and scaleable analogue outputs for Td, Tf, Wv	:	0 - 1V / 0 - 5V / 0 - 10V 1)-1mA < IL<1mA 4 - 20mA / 0 - 20mA RL< 500 Ohm1)
Sx Alarm output		2 potential-free relays (NC) 30V DC 0.6A / 35V AC 0.3A (resistive)
Supply voltage	:	10...30V DC
Current consumption at 24V DC	:	voltage output: typ. 40mA / during auto calibration: 100mA current output: typ. 80mA / during auto calibration: 140mA
Pressure range	:	0...20bar (0...290psi) / 0...100bar (0...1450psi)
System requirements for software	:	WINDOWS 2000 or later; serial interface
Serial interface for configuration	:	RS232C
Housing / protection class	:	Al Si 9 Cu 3 / IP65
Electrical connection	:	7-pole industrial plug: DIN VDE 0627 / IEC 61984 cable cross-section: 0.25 - 1 mm ² cable connection: PG 11
Sensor protection	:	stainless steel sintered filter
Working temperature range	:	probe: -40...70°C (-40...158°F) electronic: -40...60°C (-40...140°F) with LC display: -20...50°C (-4...122°F)
Storage temperature range	:	-40...60°C (-40...140°F)
Electromagnetic compatibility according to	:	EN 61326-1 EN61326-2-3 ICES-003 ClassB Industrial Environment FCC Part15 ClassB

