



EE355

OEM Dew Point Transmitter down to -60 °C Td

The compact EE355 Dew Point Transmitter with a measuring range down to -60 °C Td is ideal for applications in compressed air systems, plastic dryers and industrial drying processes. An integrated auto-calibration procedure permits a measurement accuracy of <2 °C Td.

The measured values for dew point, frost point or ppm volume concentration are available on an analog 4-20 mA and a digital Modbus RTU output. Integration into the measurement task is simplified by the compact design and the exceptionally robust stainless steel housing.

With an optional Modbus to USB convertor and the free EE-PCS configuration software the user can adjust the transmitter, set the Modbus parameters, and change the scaling of the analog output.



Technical Data

Measuring values

Dew point (Td)	
Measurement range	-6060 °C Td (-76140 °F Td)

	Medium temperature (°C)						
Response time t ₉₀	< 5 min -20 °C Td (-4 °F Td) $\rightarrow -60$ °C Td (-76 °F Td)						
Volume concentration (ppm)	<15 sec -60 °C Td (-76 °F Td) $\rightarrow -20$ °C Td (-4 °F Td)						
Measurement range	20200.000 ppm						
Accuracy at 20 °C (68 °F) and 1013mbar	5 ppm + 9 % from measured value						
Output	••						
Analog output (scalable)	4 - 20 mA (3-wire technology) RL < 500 Ohm						
Maximum adjustable scaling	-10080 °C Td (-148176 °F Td)						
Resolution of analog output	2 μΑ						
Digital interface	MODBUS RTU (max. 32 EE355 in one bus)						
Temperature dependence	±5ppm of the measuring span / °C (Deviating from 20 °C)						
General							
Supply voltage	1828 V DC						
Current consumption at 24V DC	<20 mA + load current /						
	with autocalibration: 100 mA + load current						
Pressure range of use	020 bar						

Accuracy: ≤ ±2°C Td

Supply voltage	1828 V DC				
Current consumption at 24V DC	<20 mA + load current /				
	with autocalibration: 100 mA + load current				
Pressure range of use	020 bar				
Housing / protection class	Stainless steel AISI 316L / IP65				
Electrical connection 2)	M12x1 5-pin plug				
Sensor protection	Stainless steel sintered filter				
Temperature / humidity operating range	-4060 °C (-40140 °F) / 0100 % RH				
Storage temperature range	-4060 °C (-40140 °F)				
Electromagnetic compatibility	EN61326-1 EN61326-2-3 Industrial environment	F			
	FCC Part 15 ICES-003 ClassB	_			

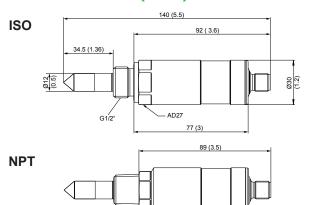
¹⁾ The accuracy statement includes the uncertainty of the factory calibration with an enhancement factor k=2 (2-times standard deviation). The accuracy was calculated in accordance with EA-4/02 and with regard to GUM (Guide to the Expression of Uncertainty in Measurement).

²⁾ Field-attachable mating connector is included in the scope of supply.



Dimensions in mm (inch)

_Connection Diagram



AD22

74 (2.9)



Plug

- 1...V+
- 2...Analog output 4-20mA
- 3...GND
- 4...RS485 A
- 5...RS485 B

Sampling Cell with Quick Connector_

1/2"NPT

The sampling cell is specially developed for use in compressed air lines and has a quick-connector suitable for standard compressed air connections (DN7.2). It allows for the cell to be fitted and removed without interrupting the process. The flow of gas can be adjusted using a bleed screw. Pressure range: 0...10 bar (0...145 psi).



2 = Bleed screw

3 = Quick connector



Ordering Information

					EE3	855-T63E
Dragovina tight covery compaction	G1/2" thread					Α
Pressure-tight screw connection	1/2" NPT thread					С
Software configuration						
Physical parameter	Dew point temperature	Td	[°C/°F]		l l	TD
for analog output	Frost point temperature	Tf	[°C/°F]	output for Td < 0		TF
	volume fraction of water vapor	Wv	[ppm]			WV
Scaling of analog output	see chart Scaling Range (e.g. TI		XXX			
Measured value unit	metric [°C]					M
ivicasureu value ullit	non metric [°F]					N

Scaling Range

Dew point TD or Frost point TF (in °C or °F)					volume fraction of water vapor WV					
002	-4060	063	-8020	083	-40140		001	0100	004	010000
003	-1050	064	-6060	141	-10020		002	0500	011	0100000
010	-20120	065	-6020				003	01000		

Accessories

M12x1 5pin connection cable socket/flying leads 1.5m HA010819 sampling cell with quick connector HA050102 M12x1 5pin connection cable socket/flying leads 5m HA010820 basic sampling cell HA050103 M12x1 5pin connection cable socket/flying leads 10m HA010821 stainless steel sintered filter HA010103 Modbus - USB converter for EE35x HA011013

Order example _

EE355-T63EA/TD065M

Pressure-tight screw connection: G1/2" thread Output: G1/2" thread Dew point Td

Output scaling: 4-20 mA = -60...20 °C Td

Measured value unit: metric [°C]

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