

Product characteristics  
Temperature transmitter

Quick disconnect

Process connection: G 1/2 A

Installation length EL: 87.5 mm

AS-i profile S-7.3

Max. medium temperature

150°C / 302°F (max. 40 perc)

Measuring range: -10...150 °C / 14...302 °F

Measuring element: 1 x Pt 1000, to DIN EN 60751, class A

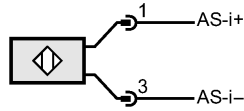
Application

Application	liquids and gases	
Pressure rating [bar]	300; only applies to the sensor; for installation in adapters the indications in the adapter data sheet shall apply	
Minimum installation depth [mm]	15	
Electrical data		
Electrical design	AS-i	
Operating voltage [V]	18...31.6 DC (AS-i)	
Current consumption [mA]	< 25	
Protection class	III	
Reverse polarity protection	yes	
Outputs		
Output function	Analog value (16 bit value incl. sign)	
Overload protection	yes	
Measuring / setting range		
Measuring range	-10...150 °C	14...302 °F
Resolution		
Analog output [K]	0.05	
Accuracy / deviations		
Analog output [K]	± 0.1 (60°C / 140°F) / ± 0.3 (0...140°C / 32...284°F)	
Temperature coefficients (in % of the span per 10 K)	< ± 0.1 *****	
Reaction times		
Dynamic response T05 / T09 [s]	1 / 3 *	
Environment		
Ambient temperature [°C]	-25...70	
Storage temperature [°C]	-40...100	
Protection	IP 68 / IP 69K	
Tests / approvals		
EMC	EN 61000-4-2 ESD:	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated:	10 V/m
	EN 61000-4-4 Burst:	2 kV

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	EN 61000-4-5 Surge:	0.5/1 kV
	EN 61000-4-6 HF conducted:	10 V
Shock resistance	DIN IEC 68-2-27:	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
MTTF [Years]		348
AS-i classification		
AS-i version		2.11
AS-i profile		S-7.3.C
I/O configuration [hex]		7
ID code [Hex]		3.C
Mechanical data		
Process connection		G ½ A
Materials (wetted parts)		stainless steel 316L / 1.4404
Probe length L [mm]		87.5
Installation length EL [mm]		87.5
Housing materials		stainless steel 316L / 1.4404; stainless steel (304S15); stainless steel (303S22); PA
Tightening torque [Nm]		30...50
Weight [kg]		0.262
Displays / operating elements		
Display		Function display LED green (operate); red (error)
Electrical connection		
Connection		M12 connector; gold-plated contacts

**Wiring**



Remarks	
Remarks	<p>*) according to DIN EN 60751                  *****) In case of deviation from the reference condition 25 ± 5 °C                  The values for accuracy apply to flowing water.                  Referring to UL: For use on a low voltage circuit with overcurrent protection in accordance with UL873 Tab. 28.1 or I<sub>max</sub> = 100/U<sub>b</sub> (U<sub>b</sub> = voltage of the circuit).</p>
Pack quantity [piece]	1