Honsberg Instruments GmbH Tenter Weg 2-8 • 42897 Remscheid • Germany Fon +49 (0) 2191 - 9672 - 0 • Fax - 40 www.honsberg.com • info@honsberg.com

Produktinformation

Temperature Transmitter ETS



- 4..20 mA two-wire temperature transmitter
- Lance-shaped with small bulk
- Compact construction available
- Short response time
- Infinitely adjustably rotatable cable outlet for clean alignment

Characteristics

The temperature sensor consists of a PT1000 resistance sensor, which has very good dynamic behaviour. The temperature-dependent change in resistance is linearised by the downstream electronics, and converted into a temperature-proportional 4..20 mA signal. The sensor is supplied with < 4 mA, so it was possible to implement a two-wire connection. At the same time, this process connection allows monitoring for wire breaks. Because the complete upper part of the housing can be turned, it is possible to simply and infinitely adjust the cable outlet.

Technical data

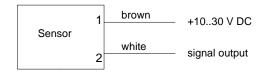
Sensor	platinum resistance sensor			
Process	male thread G $\frac{1}{4}$ A G $\frac{1}{2}$ A, union nut G $\frac{3}{4}$			
connection	or Tri-clamp connection			
Metering range	0100 °C standard range			
	0200 °C extended range for lance shape with gooseneck			
	range -20+200 °C or partial ranges available on request			
Measurement accuracy	±1 K			
Repeatability	±0.1 K			
Dynamic (τ)	3 s			
- y	100% 80% 60% 40% 20% 0% 0 2 4 6 8 10 sec			
Pressure	Lance shape PN 25 Compact construction PN 100			
	Compact construction PN 100			



Sensors and Instrumentation

Medium	as metering range		
temperature			
Ambient	-20+70 °C		
temperature			
Storage	-20+80 °C		
temperature			
Media	water, viscous media, gases		
Materials	1.4571		
medium-contact			
Materials, non-	FKM, CW614N nickelled, PP		
medium-contact			
Supply voltage	1030 V DC		
Analog output	420 mA two-wire		
Load	800 Ω at 24 V		
	(100 Ω at 10 V – 1.1 k Ω at 30 V,		
	linear at operating voltage)		
Electrical	for round plug connector M12x1,		
connection	4-pole or plug DIN 43650-A		
Ingress protection	IP 67 (round plug connector)		
	IP 65 (plug DIN 43650-A)		
Weight	approx. 0.2 kg		
Conformity	CE		

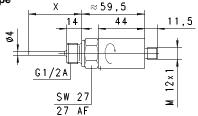
Wiring

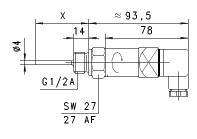


Before the electrical installation, it must be ensured that the supply voltage corresponds with the data sheet.

Dimensions

Lance shape





Lance type	Length X	Screw-in thread
050	50	G ¹ / ₂ A
100	100	G ¹ / ₂ A
150	150	G ¹ / ₂ A
200	200	G ¹ / ₂ A

GERMANY

"MADE IN

A subsidiary of

Honsberg Instruments GmbH Tenter Weg 2-8 • 42897 Remscheid • Germany Fon +49 (0) 2191 - 9672 - 0 • Fax - 40 www.honsberg.com • info@honsberg.com

Produktinformation

45

12

45

29,6 13 6

SW27

27AF

62

28

Compact sensor

G1/4A

G1/2A

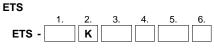


Sensors and Instrumentation Handling and operation

Installation

Sensors with screw-in threads are screwed into a T-piece or a nozzle in the pipework, using a suitable flat seal (e.g. Klingerit). Sensors with a union nut are mounted in a T-piece (see separate product information). Use only a hexagonal spanner to tighten! It should be ensured that the sensor tip is located fully in the medium, and does not push against the wall of the pipe. The upper part of the sensor with the connector output can be turned steplessly in order to align the cable outlet.

Ordering code



Option = \mathbf{O}

1.	Metering	ı range					
	100	range 0100 °C					
	200 O	range 0200 °C					
2.	Connecti	on material					
	K	stainless steel 1.4571					
3.	Connecti	on size					
	008	connection G ¹ / ₄ A					
	013	connection for T-piece					
	015	connection for G ¹ / ₂ A					
4.	Electrica	I connection					
	S	for round plug connector M12x1					
	В	DIN 43650-A plug					
5.	Process	connection					
	050	lance length	50 mm Ø 4 mm	•	٠		
	100		100 mm Ø 4 mm	•	٠		
	150		150 mm Ø 4 mm	•	٠		
	200		200 mm Ø 4 mm	•	٠		
	028	sensor length	28 mm (G ¹ / ₄ A)	•			
	029		29.6 mm (G ¹ / ₂ A)	•			
	045		45 mm (G ¹ / ₂ A)	•			
	031	sensor for	T-piece G ³ / ₈ G ¹ / ₂	•			
	037	5611501 101	T-piece G ³ / ₄ G 2	•			
6.	Option						
	н о	model with gooseneck for metering range 0200 °C					

Options

Range -20..+200 °C

Accessories

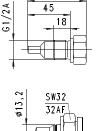
- T-piece type TS-2... Thread G ³/₈..G 2
- Cable/round plug connector (KB...) see additional information "Accessories"



subsidiary of "MADE IN GERMANY Professional Instrumentation



pi-gr-temperature_e V2.00-00



Sensor with union nut for T-piece G ³/₈..G ¹/₂ Type ..031.. (L = 31 mm) or T-piece G ³/₄...G 2 Type ..037.. (L = 37 mm)

Screw-in sensor G 1/4 A

Screw-in sensor G 1/2 A

Screw-in sensor G 1/2 A

Type ..028..

Type ..029..

Type ..045..

"Gooseneck" option for higher temperatures

13.5

