A.2.5.

ROBUST TEMPERATURE TRANSDUCER WITH DISPLAY INTO ATEX ENVIRONMENT THTI8

DESCRIPTION:

- use of Pt100 or other temperature resistance as a pick-up element
- high accuracy, low power consumption, wide working range of environment temperature
- integrated construction, easy installation
- high accuracy of transmitted signal up to 1000m

APPLICATION:

- petrochemical industry
- heating industry
- power engineering
- food industry
- healthcare

TECHNICAL PARAMETERS:

- temperature ranges: -200-0, -100-0, 0-60, 0-100, 0-120, 0-160, 0-200, 0-250, 0-300, 0-400, 0-500, 0-750, 0-1200, 0-1300, 0-1600, 0-1800 °C
- output signal: 4-20mA
- connection: M 27x2 (outer), G1/2, M20x1,5
- accuracy class: thermistor - 0,25%FS; 0,5%FS(standard); thermocouple - 0,75%FS

SPECIFICATION:

Temperature transducers THTI8 use temperature sensors Pt100. By means of the inbuilt transducer it converts the measured value to an analog output, for details see technical parameters.

Local temperature indication on 3 ½ LCD display optional. THTI8 case is made of aluminium, parts that come in contact with the medium are made of stainless steel 17 248/1.4541. THTI8 is suitable for temperature measurements in most industrial applications. Also suitable for ATEX environment.

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TECHNICAL PARAMETERS			
Measured medium	gas or liquid suitable for direct contact with stainless steel	Working temp. range	-20+60°C
Temperature range	thermocouple: E, K, S, B temperature resistance: Pt100, Cu50	Display	LCD digital. indicator in °C units, -1999-1999
Submersion	50-2000mm (on individual request)	Connection	M27x2 (outer), G1/2, M20x1,5
Accuracy class	thermistor - 0,25%FS; 0,5%FS (standard) thermocouple - 0,75%FS	Electrical connection	1/2NPT or M20x1,5 (inner)
Output signal	4-20mA	Connect. mater.	stainless st. 17 248/1.4541/321
Stability	<0,25%FS/year	Case material	aluminium
Supply voltage	24V± 10%DC	Atex environment	ATEX IIBT6
Loading resistance	RL(max.)=(V-12)/0,02V: transmitter supply	IP protection	IP 65

THTI8					
Code	Measuring range				
E	thermocouple 0-750°C				
K	thermocouple 0-1200°C				
S	thermocouple 0-1300°C				
C	Cu 50 temperature resistance: 0-1600°C				
P	Pt 100 temperature resistance: -200+500°C				
Z	on request				
	Code	Sensor diameter			
	L1	10mm			
	L2	12mm			
	L3	on request			
		Code	Connection		
		0	fixed thread G1/2		
		1	turning thread M27x2, M20x1,5		
		2	fixed flange		
		3	turning flange		
		Z	on request		
			Code	Other features	
			D0	without display	
			D1	LCD display	
			D2	LED display	
			D3	0~100% indicator	
			E0	non-explosive environment	
			E1	EXD IIBT6	
			E2	EXIA II BT6	
				Code	Length L (mm)

THTI8	P 0-200°C	L1	1	D1E0	80
	Range	Sensor diameter	Connection	Other features	Length

Wiring diagram: