

Temperature transmitter is an integral element of temperature sensor, available also as a separate component. It converts temperature sensor signal to analogue 4÷20mA, voltage 0÷10V or different signal. Transmitter can be placed directly in connection head or on TS-35mm rail.

Specification

Characteristic

- analogue transmitter
- mounting in connection head type BA: APAQ-HRF/HRFX
- mounting on a 35 mm rail: APAQ-LR
- resistance / power transmitter
- manual linearisation of output signal against temperature
- intrinsically safe version APAQ-HRFX, ATEX II 1G Ex ia IIB T4 / T5 / wT6

Input

Pt100, 3-wire

Output

4÷20 mA

Sensor current

~ 1,1 mA

Measuring range

-50÷550°C, span 50°C, 100°C, 150°C, 200°C, 300°C, 400°C, 500°C

Zero point adjustment

-50÷50°C

Accuracy

0,2% of range

Response time

0,2 s

Galvanic isolation

not present

Max. loop resistance

$$R_{L \max} = (U_{\text{supply}} - 6,5) / 0,025 \text{ [}\Omega\text{]}$$

$$R_{L \max} = (U_{\text{supply}} - 8,5) / 0,025 \text{ [}\Omega\text{]} - \text{Ex version}$$

Lead wire connection

< 2,5 mm²

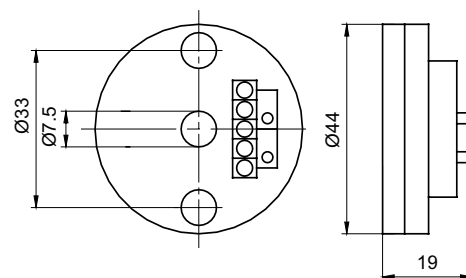
Power supply

6,5÷32V DC, 8,5÷30V DC - Ex version

Operating conditions

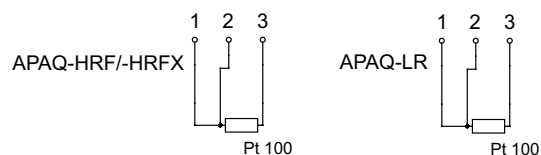
temperature: -40÷85°C, -20÷70°C for APAQ-LR

humidity: up 95% RH non-condensing

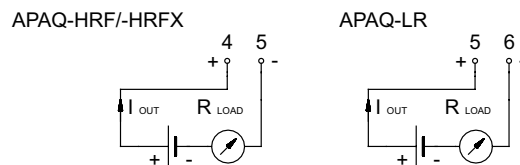


CONNECTION SCHEMES

Input connections:



Output connections:



Product code

		Transmitters version	
		LR	35mm rail mounted
		HRF	head mounted
1	<input style="width: 40px; height: 20px;" type="text"/>	HRFX	Ex version for HRF
		Temperature range	
		(0÷300)°C	(0÷300)°C
2	<input style="width: 40px; height: 20px;" type="text"/>		other parameters acc. to requirements
		Equipment	
3	<input style="width: 40px; height: 20px;" type="text"/>	A	with adapter for 35mm rail mounting for APAQ HRF i HRFX

1
2
3

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Ordering example: **Transmitter APAQ-HRF-(0÷300)°C-A**