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TEMPERATURE SENSOR WITH TRANSMITTER
type 995

Version
with connector **M12**
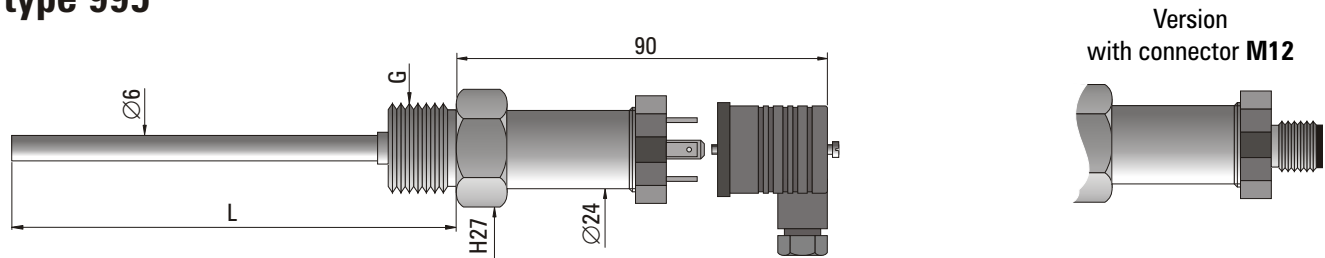
Pt100 sensor with industrial connector (version with M12 connector available), is designed for temperature measurement of liquid, gases and solids in receptacles, ducts and pipelines.

The sensor has a built-in programmable transmitter which converts the sensor resistance change to a standard 4-20mA signal or voltage 0-10V. The transmitter is configured using a PC via **IF-2013U** interface (ordered separately). Parameters are set as in the case of transmitters **TEH-27** and **TED-27**, except for the type of processing element and its connection method.
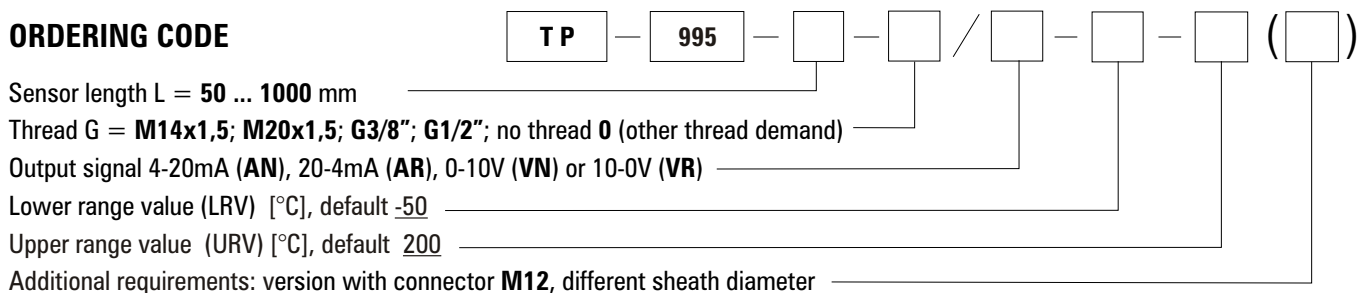
SPECIFICATION

Temperature sensor

Temperature range	−50°C...+200°C
Measuring element	Pt100, class B (class A on demand)
Sheath and body material	steel 1.4541
Maximum operating pressure	1,6 MPa
Protection class	IP65
Thread G	M14x1,5; M20x1,5; G3/8"; G1/2" (other on demand)
Additional accessories	thermowell with male thread or for welding (ordered separately)

Measurement transmitter

Measuring range	programmable, maximum −50°C ...+200°C (URV-LRV ≥ 30°C)
Accuracy (Ta = 23°C)	0,2°C
Thermal drift (dependent on Ta)	0,01°C/°C

	TP-995/AN TP-995/AR	TP-995/VN TP-995/VR
Output signal, programmable	4-20mA or 20-4mA	0-10V or 10-0V
Linear region of output signal	3,8 ... 20,5mA	0 ... 10,3V
Sensor failure indication, programmable	3,5 or 23mA	0 or 11,5V
Power supply	8 ... 36VDC/24mA (from current loop)	14 ... 36VDC/18mA
Output signal delay after power on	ca. 5s	
Digital filter time constant (1st order filter)	selected: 0,2; 1; 2; 4; 8; 16 or 32s	
Connector and body operating temperature Ta	-40 ...+80°C	

Default values are underscored. Factory programmed in case of the incomplete ordering code.

ORDERING CODE

| T P | — | 995 | — | ☐ | — | ☐ | / | ☐ | — | ☐ | — | ☐ | (☐) |

Sensor length L = **50 ... 1000** mm
Thread G = **M14x1,5**; **M20x1,5**; **G3/8"**; **G1/2"**; no thread **0** (other thread demand)
Output signal 4-20mA (**AN**), 20-4mA (**AR**), 0-10V (**VN**) or 10-0V (**VR**)
Lower range value (LRV) [°C], default -50
Upper range value (URV) [°C], default 200
Additional requirements: version with connector **M12**, different sheath diameter

Example for order: TP-995-200-G1/2"/AN-0-150 temperature sensor of length L=200mm, with thread G1/2" with built-in transmitter for output signal 4-20mA and measuring range 0...150°C.

On request, free Quality Certificate specifying the sensor class or payable Calibration Certificate for any temperature with marked deviations