



PTS 500 – Measures pressure and temperature in the process



Special features:

- 2 in 1 sensor: Pressure and temperature
- Wetted parts made of stainless steel for universal use in gases and liquids
- Easy integration into control systems, process control technology and energy management systems via digital interfaces
- Modbus-RTU, Ethernet or M-Bus interface
- Alarm relay – limit value adjustable via buttons (max 60 VDC, 0.5 A)
- Optional: 2 x 4...20 mA analogue output, 2 x alarm relays for pressure and temperature

Example order code PTS 500:

0694 7000_A1_B1_C1

Signal output option	
A1	1 x 4...20 mA analogue output (galvanically not isolated), alarm relay, RS 485 (Modbus-RTU)
A2	2 x 4...20 mA analogue output (galvanically not isolated), 2 x alarm relays, RS 485 (Modbus-RTU)
A3	Ethernet interface (Modbus/TCP), 1 x 4...20 mA analogue output (galvanically not isolated), RS 485 (Modbus-RTU)
A4	Ethernet interface PoE (Power over Ethernet) (Modbus/TCP), 1 x 4...20 mA analogue output (galvanically not isolated), RS 485 (Modbus-RTU)
A5	M-Bus, 1 x 4...20 mA analogue output (galvanically not isolated), alarm relay, RS 485 (Modbus-RTU)

Pressure measuring ranges	
B1	-1... 0 bar (-14.5...0 psi)
B2	0... 1.6 bar (0...23.2 psi)
B3	0... 10 bar (0...145 psi)
B4	0... 16 bar (0...232 psi)
B5	0... 50 bar (0...725 psi)

Process connections	
C1	G1/2"
C2	1/2" NPT

DESCRIPTION	ORDER NO.
PTS 500 sensor for measuring of pressure and temperature	0694 7000
Further accessories:	
Connection cable for probes 5 m with open ends	0553 0104
Connection cable for probes 10 m with open ends	0553 0105
Ethernet connection cable length 5 m, M12 plug x-coded (8 pin) to RJ 45 plug	0553 2503
Ethernet connection cable length 10 m, M12 plug x-coded (8 pin) to RJ 45 plug	0553 2504
Calibration certificate for pressure and temperature	3200 0005

TECHNICAL DATA of PTS 500	
Temperature measuring range:	-20...125°C
Accuracy:	± 1.0 °C (-10...+50°C)
Pressure measuring range:	See order code
Accuracy:	± 0.5% off f.s.(at 20°C)
Voltage supply:	18...36 VDC via SELV supply, 5W or Power over Ethernet (IEEE802.3af: Class 2 (3.84W - 6.49W))
Protection class of housing:	IP 65
Screw-in thread:	Stainless steel 1.4404 G 1/2", NPT 1/2"
Operating temperature:	-20...+125°C for pressure sensor
Ambient temperature:	-20...+60°C
Storage temperature:	-40...+80°C
Readable via Modbus:	Pressure [hPa, mbar, bar, psi,...] Temperature [°C, °F]
Signal output:	See order code