

# IPTS 500 – Measures pressure and temperature in the process



## Special features:

- 2 in 1 sensor: Pressure and temperature
- Wettedparts 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 IPTS  
 500: **0694 7000\_A1\_B1\_C1**

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

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

Process connections	
<b>C1</b>	G1/2"
<b>C2</b>	1/2" NPT

DESCRIPTION	ORDER NO.
IPTS 500 sensor for measuring of pressure and temperature	0694 7000
<b>Further accessories:</b>	
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

## TECHNICAL DATA of IPTS 500

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