

# Pressure transmitter 4-20 mA with display

## Article number: 801513 2032

The 4-20 mA pressure transmitter with display is the premium solution for maximum process reliability in demanding industrial environments. It combines a seal-free welded stainless steel measuring cell, an interference-free 4-20 mA signal, and a flexible LCD display for maximum reliability and ease of use. Its UL and drinking water approval (NSF) make it the first choice for critical applications.



Supply and output	
Output	4 - 20 mA (2-Wire)
Load	$R_a \text{ (Ohm)} = (U_b - 7 \text{ V}) / 0,02 \text{ A}$
Insulation resistance	500 V DC
Voltage supply	7 - 33 V DC
Power input	< 23 mA

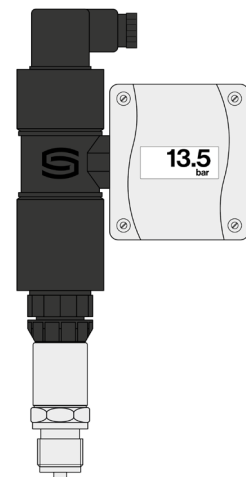
Pressure	
Pressure type	Relative pressure
Measuring principle	Steel measuring cell (no separate pressure transmitter required)
Pressure range	See table
Accuracy pressure	$\pm 0,3 \%$ of the final value
Response time	2 ms (typ. 1 ms)
Burst pressure	< 6 bar: 10 x full scale; > 6 bar: 6 x full scale (max. 2500 bar)
Overload	< 6 bar: 5 x FS; > 6 bar: 3 x FS (max. 1500 bar)
Temperature behavior	$\pm 0,02 \%$ per Kelvin

Body	
Material	Stainless steel 1.4305   SUS 303
Color	Black
Dimensions (L/W/H) (mm)	217 x 117 x 43,3
Wetted parts	Stainless steel V2A (1.4305)
Pressure connection	G1/2", back-seating
Electrical connection	0.25 - 1.5 mm <sup>2</sup> , via plug connector DIN EN 175301-803-A (included in the scope of delivery)

Display module	
Material	Plastic, UV-resistant, Material: PC/ABS, 30% glass bead reinforced
Color	Black (similar to RAL9004)
Dimensions (L/W/H) (mm)	72 x 67 x 43,3
Closure	with quick-release screws

### Configurable options

P-Pressure range



Display	
Cut-out (B/H) (mm)	ca. 36 x 15
Display content	Pressure [bar] [kPa] [psi] [inWC] [mWC] [atm], voltage [V] or current [mA]
System of units	SI and Imperial (display configurable)
Display module can be rotated and tilted, For displaying the actual pressure, min/max pressure or standard signal of the sensor	

Ambient conditions	
Storage temperature	-50 °C to +100 °C
Ambient temperature	-30 °C to +85 °C
Medium	liquid and gaseous
Medium temperature	-40 °C to +135 °C
Long-term stability	± 0.25% of full scale/year

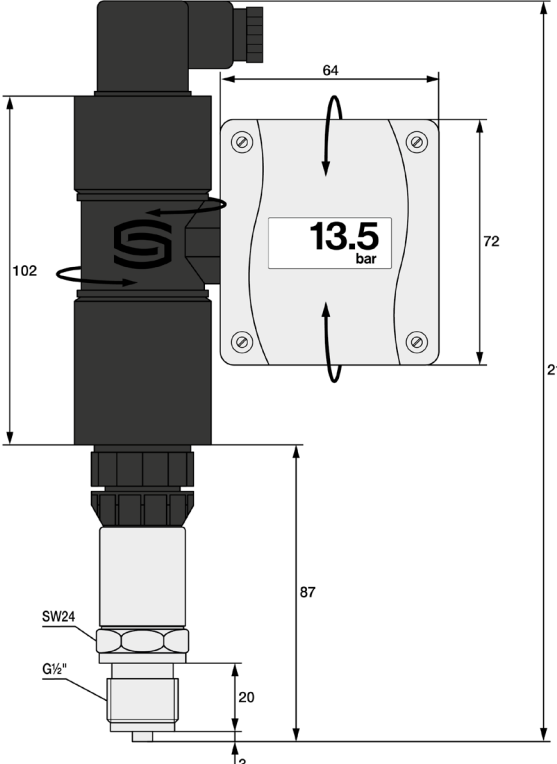
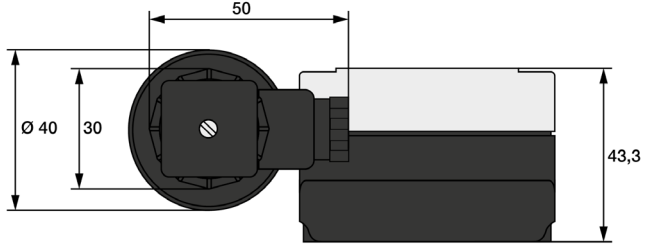
Certifications / Standards	
Protection class	III (according to EN 60 730)
Protection type	IP 65 according to EN 60 529
Standards	CE conformity, according to EMC Directive 2014/ 30/ EU
Tests	Drinking water approval according to NSF/ANSI 61/372, UL certified according to ANSI/UL 61010-1
Shock acc. to IEC 68-2-27	100 g, 11 ms, half sine wave, all 6 directions, free fall from 1 m onto concrete (6x)
Continuous shock acc. to IEC 68-2-29	40 g over 6 ms, 1000x all 3 directions
Vibration acc. to IEC 68-2-6	20 g, 15 to 2000 Hu, 15 to 25 Hz with amplitude ± 15 mm, 1 octave/minute all 3 directions,50 continuous loads

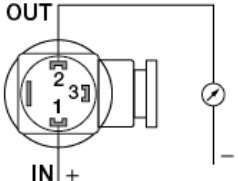
Delivery and Packing	
Delivery	Transmitter, Operating instructions
Packing	individually packed in cardboard box

Your order code	P - Pressure range		
Article number	Pressure range	code	Pressure range
801513 2032	P_____	P0010	0 bar to 1 bar
		P0025	0 bar to 2,5 bar
		P0060	0 bar to 6 bar
		P0100	0 bar to 10 bar
		P0160	0 bar to 16 bar
		P0250	0 bar to 25 bar
		P0400	0 bar to 40 bar

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**Testo Sensor GmbH**

Technical drawing	Top view
	 <p><b>Important assembly instructions</b></p> <p>Installation is carried out by screwing the transmitter directly into the pressure line via the G1/2" process connection. The electrical connection is conveniently and quickly made using the DIN connector supplied, which ensures simple and safe commissioning. The display module can be rotated and tilted and can be aligned for optimum readability. Before commissioning, check the pressure and electrical connections for leaks and correct connection.</p> <p style="text-align: right;">All dimensions in mm</p>

Circuit diagrams and assignment (Please also read the operating instructions before connecting the transmitter)	
Schaltbild	Assignment
	<p>1 = Supply voltage UB+ 24V DC</p> <p>2 = Output pressure 4-20 mA</p> <p>3 = Free</p>

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