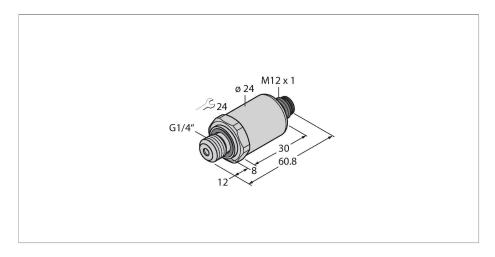


# PT250R-2004-IOL-H1141 Pressure Transmitter – IO-Link with Two Switching Outputs



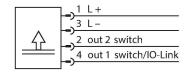
#### Technical data

Туре	PT250R-2004-IOL-H1141		
ID	100017807		
Pressure type	Relative pressure		
Pressure range	0250 bar		
	03625.94 psi		
	025 MPa		
Admissible overpressure	≤ 750 bar		
Burst pressure	≥ 1500 bar		
Response time	< 2 ms, typ. 1 ms		
Long-term stability	0.25 % FS, according to IEC EN 60770-1		
Power supply			
Operating voltage U <sub>B</sub>	1833 VDC		
	In IO-Link mode		
	933 VDC		
	In SIO mode		
Short-circuit/reverse polarity protection	yes / yes		
Protection class	IP67		
Insulation class	III		
Insulation voltage	750 VDC		
Outputs			
Output 1	Switching output or IO-Link mode		
Output 2	Switching output		
Switching output			
Communication protocol	IO-Link		
Output function	NO/NC, PNP/NPN		
Switching current	≤ 100 mA		

### **Features**

- ■Fully welded metal measuring cell
- Pressure range 0...250 bar rel.
- ■18...33 V DC
- ■NO/NC contact, 2 × PNP/NPN outputs, IO-Link
- Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring
- Connector device, M12 × 1

### Wiring diagram





## Functional principle

or for oxygen applications.

The pressure sensors in the PT...-2000 product series operate with a fully welded metal measuring cell in various pressure ranges of up to -1...1000 bar in 2-, 3- or even 4-wire technology. Depending on the sensor variant, the processed signal is available as an analog output signal (4...20 mA, 0... 10 V, 0...5 V, 1...6 V, ratiometric) or as a digital IO-Link process parameter. The IO-Link sensor variants also have two independently configurable switching outputs. In addition to the standard variants, there are

A wide range of process connections and electrical connections offer a high degree of flexibility in a wide range of applications.

special sensors for uses such as ATEX areas



# Technical data

Switching point distance         ≥ 0.5 %           Switch point:         (Min. + 0.005 × range)100 % of full scale           Release point(s)         Min. up to (SP - 0.005 × range)           Switching cycles         ≥ 100 mil.           Switch point SP1         Factory setting: 50 % of measuring range end value           Release point rP1         Factory setting: 25 % of measuring range end value           Switching point SP2         Factory setting: 60 % of measuring range end value           Resolution         <± 0.1 % FS           Accuracy LHR         ± 0.3 % FS (typical; max. ± 0.5 % FS)           IO-Link         V 1.1           Programming         FDT/DTM           Transmission physics         corresponds to 3-wire physics (PHY2)           Transmission rate         COM 2/38.4 kbps           Frame type         2.2           Temperature behaviour         Medium temperature           Medium temperature         -40+135 °C           Temperature coefficient         ± 0.2 % of full scale/10 K           Environmental conditions         Ambient temperature           Ambient temperature         -50+85 °C           Storage temperature         -50+85 °C           Vibration resistance         100 g, 11 ms, half sinusoidal curve, all 6 directions, 50 continuous loads, acc. to IEC 68-2-27<	Switching frequency	≤ 100 Hz		
Release point(s)  Min. up to (SP - 0.005 × range)  Switching cycles  ≥ 100 mil.  Switch point SP1  Factory setting: 50 % of measuring range end value  Release point rP1  Factory setting: 25 % of measuring range end value  Switching point SP2  Factory setting: 60 % of measuring range end value  Release point rP2  Factory setting: 30 % of measuring range end value  Resolution <pre></pre>	Switching point distance	≥ 0.5 %		
Switching cycles ≥ 100 mil.  Switch point SP1 Factory setting: 50 % of measuring range end value  Release point rP1 Factory setting: 25 % of measuring range end value  Switching point SP2 Factory setting: 60 % of measuring range end value  Release point rP2 Factory setting: 30 % of measuring range end value  Resolution	Switch point:	= :		
Switch point SP1  Factory setting: 50 % of measuring range end value  Release point rP1  Factory setting: 25 % of measuring range end value  Factory setting: 60 % of measuring range end value  Release point rP2  Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmathcal{2}}{2} \text{ 1.8 FS}}\$  Accuracy LHR  \$\frac{\pmathcal{2}}{2} \text{ 2.3 % FS (typical; max. \pmathcal{2}.5 % FS)}\$  IO-Link  IO-Link  IO-Link  Programming  FDT/DTM  Transmission physics  corresponds to 3-wire physics (PHY2)  Transmission rate  COM 2/38.4 kbps  Frame type  2.2  Temperature behaviour  Medium temperature  -40+135 °C  Temperature coefficient  -30+85 °C  Storage temperature  -30+85 °C  Storage temperature  -30+85 °C  Storage temperature  -30+85 °C  Storage temperature  100 °C  Vibration resistance  100 °G, 152000 Hz, 1525 Hz with amplitude \pmathcal{2} 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6  Shock resistance  100 °G, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27  Mechanical data  Housing material  Stainless-steel/Plastic, 1,4404 (AISI 316L)  Process connection material  Stainless steel 1.4404 (AISI 316L)  Material pressure transducer  Stainless steel 1.4404 (AISI 316L)  Process connection  G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring  Wrench size pressure connection / coupling nut	Release point(s)	Min. up to (SP - 0.005 × range)		
Release point rP1 Factory setting: 25 % of measuring range end value  Switching point SP2 Factory setting: 60 % of measuring range end value  Release point rP2 Factory setting: 30 % of measuring range end value  Resolution	Switching cycles	≥ 100 mil.		
end value  Switching point SP2  Factory setting: 60 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = \$\frac{\pmath{\text{total}}}{\text{total}}\$ = Factory setting: 30 % of measuring range end value  Resolution  \$\frac{\pmath{\text{total}}}{\text{total}}\$ = \$\	Switch point SP1			
Release point rP2 Factory setting: 30 % of measuring range end value  Resolution < ± 0.1 % FS	Release point rP1	, ,		
Resolution <pre> 4 0.1 % FS Accuracy LHR</pre>	Switching point SP2			
Accuracy LHR ±0.3 % FS (typical; max. ±0.5 % FS)  IO-Link IO-Link specification V 1.1 Programming FDT/DTM Transmission physics corresponds to 3-wire physics (PHY2) Transmission rate COM 2/38.4 kbps Frame type 2.2  Temperature behaviour Medium temperature -40+135 °C Temperature coefficient ± 0.2 % of full scale/10 K  Environmental conditions  Ambient temperature -50+85 °C Storage temperature -50+100 °C  Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6  Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27  Mechanical data  Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0  Pressure connection material Stainless steel 1.4404 (AISI 316L)  Material pressure transducer Stainless steel 1.4435 (AISI 316L)  Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring  Wrench size pressure connection / coupling nut	Release point rP2			
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Programming   FDT/DTM	Accuracy LHR	±0.3 % FS (typical; max. ±0.5 % FS)		
Programming FDT/DTM  Transmission physics corresponds to 3-wire physics (PHY2)  Transmission rate COM 2/38.4 kbps  Frame type 2.2  Temperature behaviour  Medium temperature -40+135 °C  Temperature coefficient ± 0.2 % of full scale/10 K  Environmental conditions  Ambient temperature -30+85 °C  Storage temperature -50+100 °C  Vibration resistance 20 g, 152000 Hz, 1525 Hz with amplitude ± 15 mm, 1 octave/minute in all 3 directions, 50 continuous loads, acc. to IEC 68-2-6  Shock resistance 100 g, 11 ms, half sinusoidal curve, all 6 directions, free fall from 1 m onto concrete (6x) acc. to IEC 68-2-27  Mechanical data  Housing material Stainless-steel/Plastic, 1.4404 (AISI 316L)/polyarylamide 50 % GF UL 94 V-0  Pressure connection material Stainless steel 1.4404 (AISI 316L)  Material pressure transducer Stainless steel 1.4435 (AISI 316L)  Process connection G1/4" male thread (back sealing) according to DIN EN ISO 1179-2 with FPM profile sealing ring  Wrench size pressure connection / coupling nut	IO-Link			
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ing to DIN EN ISO 1179-2 with FPM pro- file sealing ring  Wrench size pressure connection / cou- pling nut  24	Material pressure transducer	Stainless steel 1.4435 (AISI 316L)		
pling nut	Process connection	ing to DIN EN ISO 1179-2 with FPM pro-		
Electrical connection Connector, M12 × 1		24		
	Electrical connection	Connector, M12 × 1		

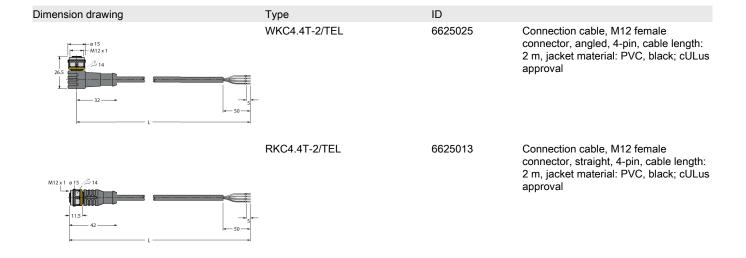


# Technical data

Max. tightening torque of housing nut	20 Nm
Reference conditions acc. to IEC 61298-1	
Temperature	15+25 °C
Atmospheric pressure	8601060 hPa abs.
Humidity	4575 % rel.
Auxiliary power	24 VDC
Programming options	Offset; filter; switching points; hysteresis/filter function, NC/NO; min./max. pressure values, pressure peak counter; operating hours counter
Tests/approvals	
Approvals	cULus
UL registration number	E302799
MTTF	1200 years acc. to SN 29500 (Ed. 99) 40 °C
Included in delivery	FKM special profile seal (1x)

## Accessories

Discounting the fee	T	ID	
Dimension drawing  M12x1 214 e 162  48.5 50 50 50 50	Type RKC4.4T-P7X2-2/TXL	ID 6626795	Connection cable, M12 female connector, straight, 4-pin, 2 LEDs, cable length: 2 m, jacket material: PUR, black; cULus approval
015 M12x1 26.5 26.5 20.5 20.5	WKC4.4T-P7X2-2/TXL	6626173	Connection cable, M12 female connector, angled, 4-pin, 2 LEDs, cable length: 2 m, jacket material: PUR, black; cULus approval
M12x1 o 15 14 + 11.5 + 42 + 50 - 50 -	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
915 M12x1 26.5 26.5 32	WKC4.4T-2/TXL	6625515	Connection cable, M12 female connector, angled, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval



#### Accessories

Dimension drawing	Туре	ID	
	USB-2-IOL-0002	6825482	IO-Link Master with integrated USB port

