

PTG

Relative pressure transmitter



Huba Control

- ♦ Medium : inert gases / rare gases / O₂ / CO₂ / air, other media on request
- ♦ Compact, rugged construction
- ♦ Welded without sealing parts, no elastomer seals

The compact type PTG pressure transmitter is based upon the Huba Control developed thick film technology where the pressure measuring cell is fully welded. This transmitter meets the high burst protection demands and is suitable for the use in gas filling systems.

Technical data

♦ Pressure range (FS)	0 ... 400 bar / 0 ... 600 bar, others on request
♦ Connection	NPT 1/4
♦ Media temperature	from -40°C to + 135°C
♦ Ambient temperature	from -30°C to + 85°C
♦ Storage temperature	-50°C ... +100°C
♦ Tolerable overload	3 x FS (max. 1500 bar)
♦ Rupture pressure	6 x FS (max. 2500 bar)
♦ Output signal	4 ... 20 mA
♦ Power supply	7 ... 33 VDC
♦ Load	< (Supply voltage - 7 V) / (0,02 A)[Ohm]
♦ Current consumption	< 23 mA
♦ Response time	< 2 ms, 1 ms typ.
♦ Load cycle	< 100 Hz
♦ Protection standard	connector M12x1 IP 67
♦ Installation arrangement	unrestricted
♦ Weight	~ 90 g excluding cable and connector

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Accuracy

Parameter	Unit	
♦ Characteristic line	% fs	± 0.3
♦ Resolution	% fs	0.1
♦ Thermal characteristic max.	% fs/10K	± 0.2
♦ Long term stability acc. IEC EN 60770-1	% fs	± 0.25
♦ Test conditions	25°C, 45% RH, power supply 24 VDC	

Options

- ◆ Atex version available on request
Protection against explosion, intrinsic safety „i“
- ◆ Brass adapter with flow restrictor for O₂ pressure measurement

Ex II 1/2 G Ex ia IIC T4 Ga/Gb
Ex II 1/2 D Ex ia IIC T125°C Da/Db

Material specification

Materials in contact with medium

- ◆ pressure connection : stainless steel 1.4404 / AISI 316L
- ◆ sensor : stainless steel

Version

- ◆ for oxygen applications (m-tech standard)

Tests / Admissions

- ◆ Electromagnetic compatibility CE conformity acc. EN 61326-2-3
- ◆ Shock acc. IEC 68-2-27 100 g, 11 ms half sine wave, all 6 directions, free fall from 1 m on concrete (6x)
- ◆ Constant shock acc. IEC 68-2-29 40 g for 6 ms, 1000x all 3 directions
- ◆ Vibration acc. IEC 68-2-6 20 g, 15 ... 2000 Hz, 15 ... 25 Hz with amplitude ± 15 mm, 1 Octave/min. all 3 directions, 50 constant load

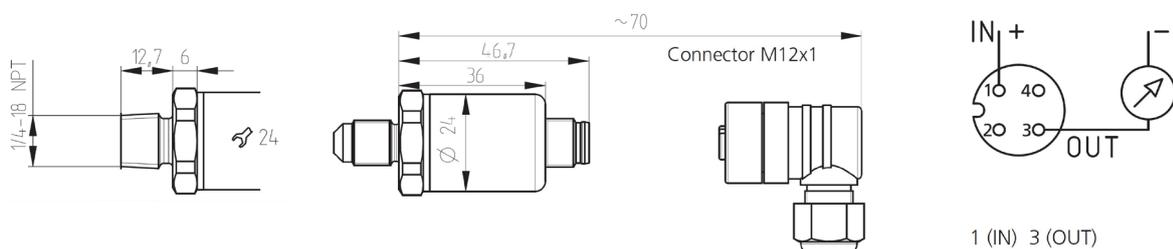
Electrical connection

- ◆ Connector M12x1 2w : IN=1 / OUT=3

Part numbers

◆	Pressure transmitter	Pressure range (FS)	Part number	Part number (ATEX)
		0-400 bar	01642	10560
		0-600 bar	01643	
◆	Connector with cable (Color code 1=brown, 3=blue)	Cable length		
		5 m	02902	
		10 m	02901	10555
◆	Adapter with $\varnothing 0.4$ mm flow restrictor (NPT 1/4)		10289	

Dimensions in mm / electrical connections



1 (IN) 3 (OUT)