Description

The sensors of series P16 are piezzoresistive based on ceramic. Measurement cubicle has excelent long life stablity and over load resistance. The transducers supplies high accuracy during measure range and decrease the effect of hystherisis. Pressure transmitter's zero point which are designed from PNOMEK R&D engineers, can be set according to costumer specifications.

- Long time stability thanks to piezzoresistive ceramic cubicle measurement.
- Stainless body and ultra compact design.
- Excelent measurement until 600 bar.
- It can be set according to costumer specifications.
- Normal it has double resistance to vibration compare to industrial standarts.

Application

- Hydraulic and mobile hydraulics
- Pneumatics
- Heavy-Duty machines industry
- Media; Compressed air, liquids, gases.

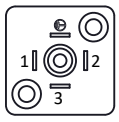
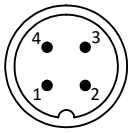
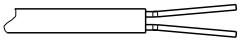
Thecnical Features

Mechanical Connection Type	: G1/4"- G1/8" - 1/4"BSPT - 1/8"BSPT - M10x1,0 - M12x1,5 - 1/8"NPT - 1/4"NPT
Accuracy @ 25°C	: < % ±0,5 FS
Working temperature	: -20°C...+110°C
Reaction timev	: < 5 ms
Shock Test (DIN EN 60068-2-27:1993)	: 30 g
Body Metarial	: 316L Stainless or Brass
Viscosity Range	: 10 ile 800 mm² /sn
Output	: 4 ... 20mA - 4 ...20mA (3 kablolu) - 0 ... 10V - 0 ... 5V - 1 ... 5V - 0,5 ... 4,5V - 0,5 ... 4,5V (Ratiometric)

Order Codes

P16	____	____	____	____	____			____	____
Model	Body	Leekageproof Type	Mechanical Con. Type	Electrical Con. Type	Pressure			Output Signal	Accuracy
					Code	Pressure Range (bar)	P_{max}		
P16 Model Pressure Transmitter & Transducer	**Y** Brass "MS58" If you do not indicate any body type, It is delivered as stainless "316L" body	**V** VITON **E** EPDM **H** HNBR If you do not indicate any leekageproof type, It is delivered as "NBR"	**A3** G1/4" **A4** G1/8" **S3** 1/4" BSPT **S4** 1/8" BSPT **B1** M10 x1,0 **B3** M12x1,5 **N3** 1/8"NPT **N4** 1/4"NPT	**T1** DIN 43650 A **T2** DIN 43650 C **T3** M12 x 1 (4 pin) **T4** Cable output 2 meter	**2,5** **6** **10** **16** **25** **40** **60** **100** **160** **250** **315** **400** **600**	0 ... 2,5 0 ... 6 0 ... 10 0 ... 16 0 ... 25 0 ... 40 0 ... 60 0 ... 100 0 ... 160 0 ... 250 0 ... 315 0 ... 400 0 ... 600	6 bar 15 bar 30 bar 45 bar 75 bar 100 bar 130 bar 250 bar 350 bar 600 bar 700 bar 700 bar 1050 bar	**Z1** 4 ... 20 mA **Z1.3** 4 ... 20 mA (3 wire) **Z2** DC 0 ... 10 V **Z3** DC 0 ... 5 V **Z4** DC 1 ... 5 V **Z5** DC 0,5 ... 4,5 V **Z6** DC 0,5 ... 4,5 V Rasiometric	**F1** Pressure transmitter that is calibrated high accuracy (Please review Accuarcy diagram for accuracy values). If accuracy type doesn't prefered, pressure transmitter which is calibrated as standart accuracy, is delivered. (± %0.5 FS @ 25°C)

Electrical Connection

			2 Wire	***3 Wire***
T1 DIN 43650 A Wide Socket 30 x 30		U_B	1	1
		0V	2	2
		S_+	-	3
T2 DIN 43650 C Thin Socket 16 x 16		U_B	1	1
		0V	2	2
		S_+	-	3
T3 M12 x 1 (4 PIN)		U_B	1	1
		0V	3	3
		S_+	-	4
T4 Cable output Cable height : 2 meter		U_B	Red	Red
		0V	Blue	Blue
		S_+	-	Brown

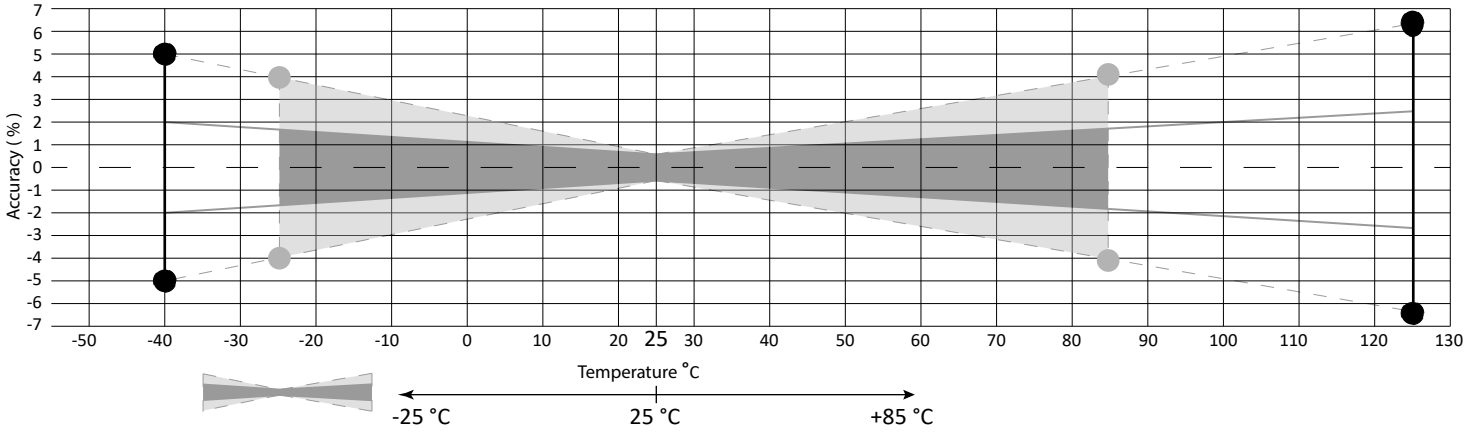
Thecnical Feature

Special Feature								
Parameters	Unit	Current		Voltage				Rasiometric
Output signal	-	4 ... 20mA	4 ... 20mA (3 wire)	0 ... 10V	0 ... 5V	1 ... 5V	0,5 ... 4,5V	0,5 ... 4,5 V Rasiometric
Input Voltage	VDC	8 ... 30		14 ... 30	8 ... 30			5V ± % 10
Load	Ω	≤(power load - 8 V)/0,02 A		> max. output signal / 1mA				> 10k
Total current consume	mA	current signal , max 25		8				8
Temperature accuracy 0 ... 80 °C	-	≤ % ± 1 FS						
Action Time	ms	< 5 ms						
Shock Test	g	30						
Working Temperature	°C	- 20 °C ... 80 °C						
Mechanical Con.	-	G1/4"- G1/8" - 1/4"BSPT - 1/8"BSPT - M10x1,0 - M12x1,5 - 1/8"NPT - 1/4"NPT						
Body Material	-	316L Stealess or Brass body options						

Not: If you have neccesary about the out of the values, Please contact us.

Accuracy Diagram

Temperature/Accuracy Diagram of PT16 Series Pressure Transmitter that has Standart and Calibrated High Accuracy

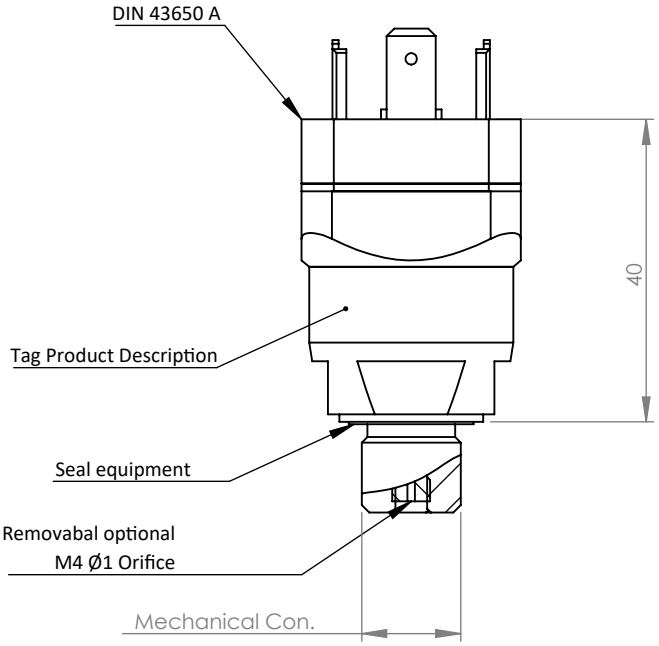


Pressure transmitter calibrated standart accuracy :

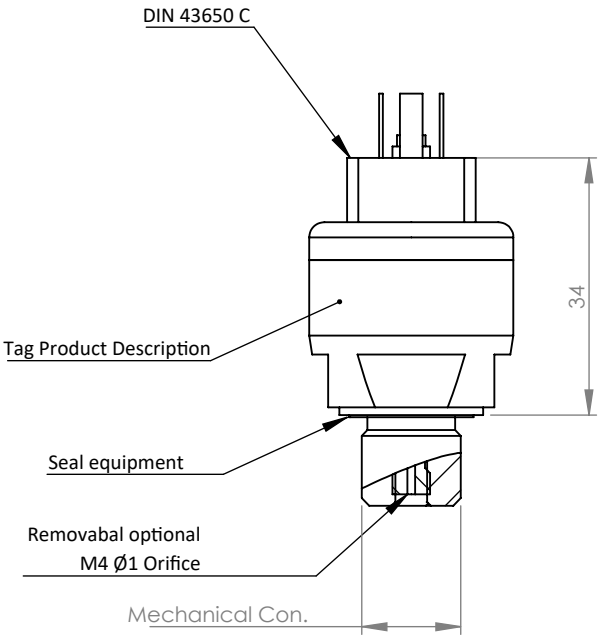
Pressure transmitter calibrated high accuracy :

Technical Dimens

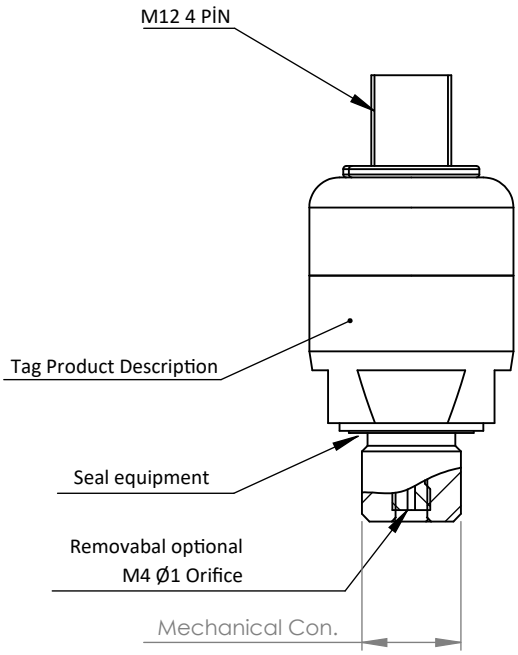
Electrical Connection
*Type no : **T1***



Electrical Connection
*Type no : **T2***



Electrical Connection
*Type no : **3***



Electrical Connection
*Type no : **T4***