



Description

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

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

Application

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

Technical 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 : < % $\pm 0,5$ FS
Working temperature : -20°C...+110°C
Reaction time τ_v : < 5 ms
Shock Test (DIN EN 60068-2-27:1993) : 30 g
Body Material : 316L Stainless or Brass
Viscosity Range : 10 ile 800 mm² /sec
Output : 4 ... 20mA - 4 ... 20mA (3 cabled) - 0 ... 10V - 0 ... 5V - 1 ... 5V - 0,5 ... 4,5V - 0,5 ... 4,5V (Ratiometric)

Order Codes

P16					Pressure				
Model	Body	Leekageproof Type	Mechanical Connection Type	Electrical Con. Type	Code	Pressure Range (bar)	P _{max}	Output Signal	Accuracy
P16 Model Pressure Transmitter & Transducer	Y Brass “MS58” If you do not indicate any body type, It is delivered as stainless “316L” body	N NBR 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 Kablo Çıkışı 2 metre T5 Kablo Çıkışı 2 metre	V0	-1...0	6 bar	Z1	F1 Pressure transmitter that is calibrated high accuracy (Please review Accuaracy diagram for accuracy values). If accuracy type doesn’t prefered, pressure transmier which is calibrated as standart accuracy, is delivered. (± %0.5 FS @ 25°C)
					V1	-1...1	6 bar	Z1.3	
					V3	-1...3	6 bar	Z1.3	
					V6	-1...6	15 bar	4 ... 20 mA (3 kablolu)	
					V10	-1...10	30 bar		
					V16	-1...16	45 bar		
					V24	-1...25	75 bar		
					2,5	0 ... 2,5	6 bar	Z2	
					6	0 ... 6	15 bar	DC 0 ... 10 V	
					10	0 ... 10	30 bar		
					16	0 ... 16	45 bar	Z3	
					25	0 ... 25	75 bar	DC 0 ... 5 V	
					40	0 ... 40	100 bar	Z4	
					60	0 ... 60	130 bar	DC 1 ... 5 V	
					100	0 ... 100	250 bar		
					160	0 ... 160	350 bar	Z5	
					250	0 ... 250	600 bar	DC 0,5 ... 4,5 V	
					315	0 ... 315	700 bar		
					400	0 ... 400	700 bar	Z6	
					600	0 ... 600	1050 bar	DC 0,5 ... 4,5 V Rasiometric9	

Electrical Connection Type

		2 cabled		3 cabled
T1 DIN 43650 A Wide Socket 30 x 30		UB	1	1
		OV	2	2
		S+	-	3
T2 DIN 43650 C Thin Socket 16 x 16		UB	1	1
		OV	2	2
		S+	-	3
T3 M12 x 1 (4 PIN)		UB	1	1
		OV	3	3
		S+	-	4
T4 Cable output Cable height : 2 meter		UB	Red	Red
		OV	Blue	Blue
		S+	-	Brown

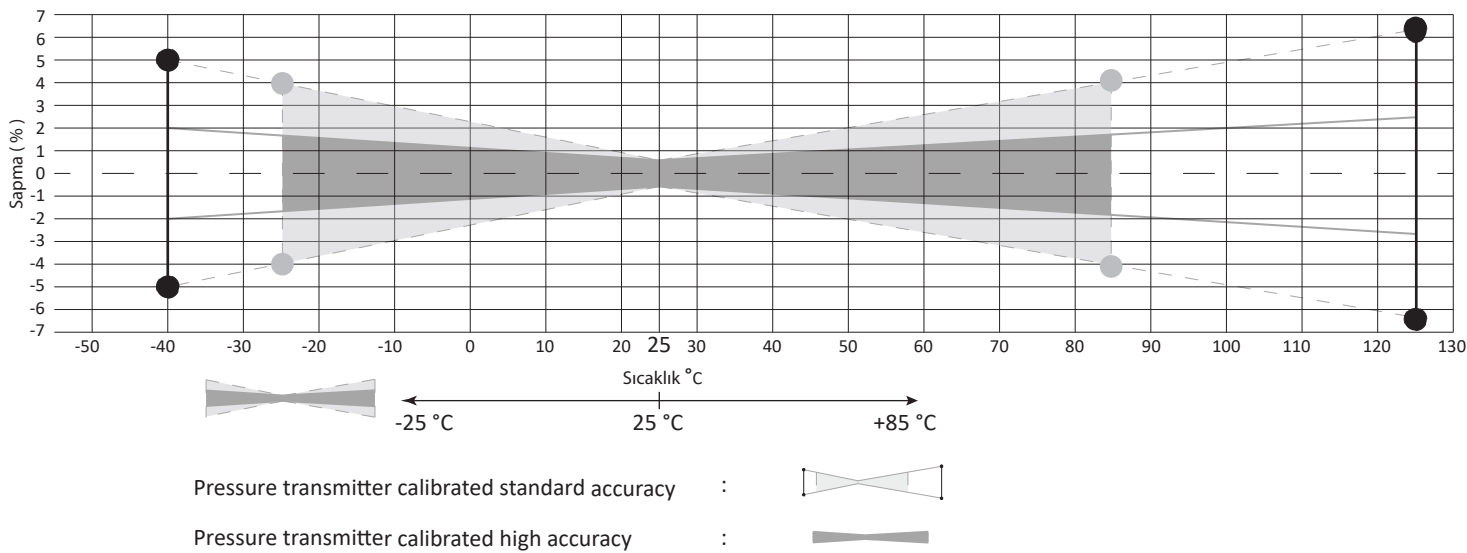
Technical Feature

Special Feature								
Parameters	Unit	Current		Voltage				Rasiometric
Output Signal	-	4 ... 20mA	4 ... 20mA (3 kablolu)	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 supply - 8 V)/0,02 A		> Maximum 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 Testi	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 Stainless or Brass body options						

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

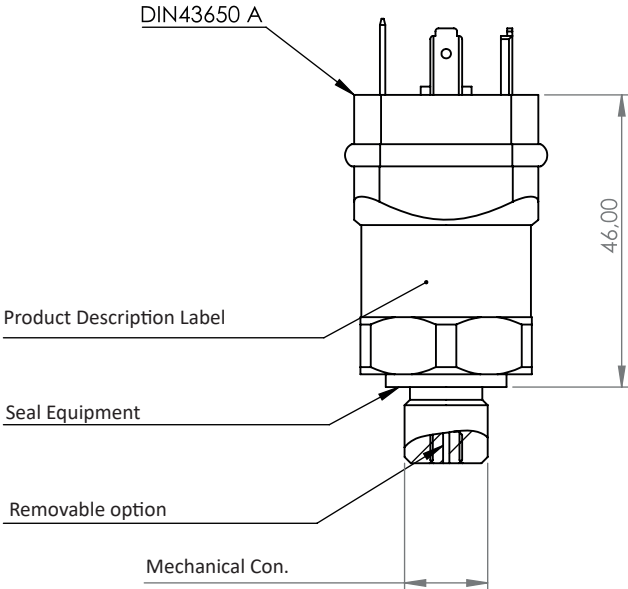
Accuracy Diagram

Temperature/Accuracy Diagram of P16 Series Pressure Transmitter that has Standart and Calibrated High Accuracy

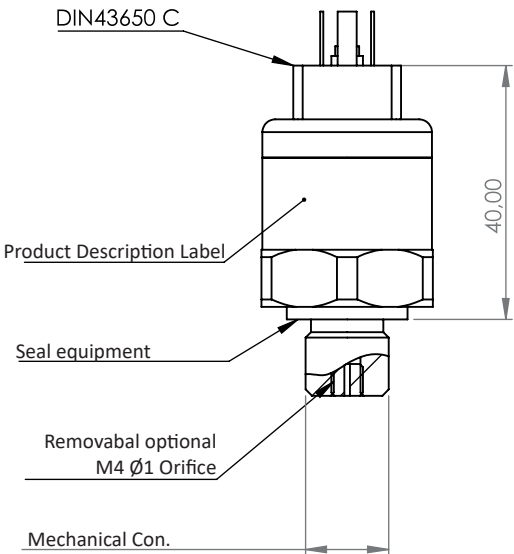


Technical Dimensions

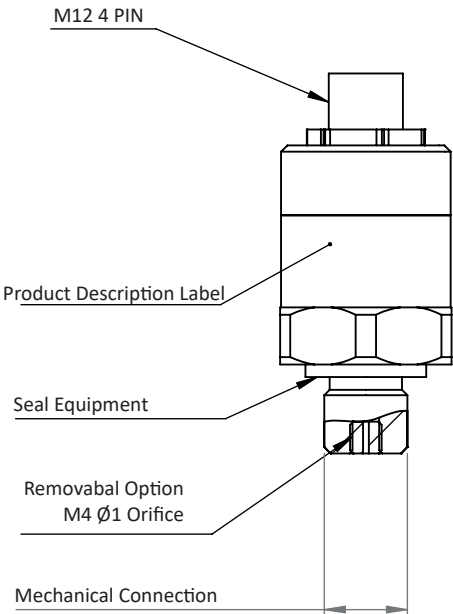
Electrical Connection
T1



Electrical Connection
T2



Electrical Connection
T3



Electrical Connection
T4

