Tasira
Instruments & Services

MASS

Industrial Pressure Transmitter
Model PT11

Features

- Compact design
- Rugged stainless steel construction
- High shock and vibration stability
- Reverse polarity and limit protection
- High accuracy, stability, and reliability
- Protection IP67 / IP65

Ranges

0 ... 1.5 psi up to 0 ... 15,000 psi
0 ... 0.1 bar up to 0 ... 1000 bar & kg/cm²
0 … 10 kPa up to 0 … 100,000 kPa

Applications

Machine and construction apparatus
Hydraulic and Pneumatics systems
Refrigeration and air conditioning
Emissions monitoring
Power generation
Automation

Technical specifications	PT11
Measuring principle	Piezo resistive sensors
Range in mbar	100 160 250 400 600
Range in bar (kg/cm²)	1 1.6 2.5 4 6 10 16 25 40 60 100 160 250 400 600 1000 -1/0 -1/3 -1/5 -1/9 -1/15
Overpressure limit	150% of FS, Max 1100 bar
Pressure type	Gauge, Vacuum, Compound and Absolute
Process connection	G 1/4 male according DIN 3852 Part 11 Form E, 1/4" NPT (M), 1/2" NPT (M), 1/2" BSP (M) Others on request
Material Wetted Part Process connection Sensor Housing Seals	 Stainless Steel 316L Stainless Steel 316L Stainless Steel 300 series FKM
Power supply	11 ... 28 VDC
Output signal	4 ... 20 mA (2 wires) | 0 ... 5 VDC (3 wires) | 1 ... 5 VDC (3 wires) | 14 ... 28 VDC 0 ... 10 VDC (3 wires) | 1 ... 9 VDC (3 wires) | 5 VDC ± 10% 0.5 ... 4.5 RM (3 wires)
Maximum Loop Resistance	(U – 12V)/0.02 Ω
Insulation Voltage	100V, 100MΩ
Electrical connection	4 PIN angle connector DIN EN 175301-803 A, DIN EN 175301-803 C (IP65) M12 Round Connector (IP67), Direct Cable Connection
Accuracy	≤ 0,5 % FS, optional ≤ 0,25 % FS (Including Linearity, Hysteresis, Zero offset & Span offset), at Room Temperature
Long term stability	≤0,2 % FS / year
Permissible Operation temperature Medium temperature Storage temperature	 -20 ... 80 °C -40 ... 125 °C -25 ... 85 °C
Stability Vibration resistance Shock resistance	 10gRMS, (20~2000) Hz 100g, 11ms
Protection acc. EN 60 529/IEC 529	IP67 / IP65, depending on cable entry
Weight in kg	~ 0.20

All specifications are subject to change without notice.
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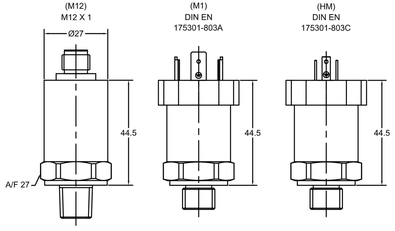
MASS

General dimensions in mm



Pin	2 wire (Ampere Output)	3 wire (Voltage Output)
1	+ Ve	+ Ve
2	- Ve	- Ve
3	X	+ signal
4	X	X

Order information

Output signal	Accuracy	Range	Engineering unit	Protection	Process connection	Electrical connection	Options
(42) 4/20 mA	**(050)** ≤ 0,50 %	**0/ 100**	**mbar**	**(=)** IP65	**(MG9)** G ¼ A male Form E[3]	**(M1)** 4 Pin Angle connector DIN EN 175301-803 A[4]	**(NH)** Tagging Wired
(05) 0/5 VDC	**(025)** ≤ 0,25 %	**0/ 160**		**(N)** IP67[2]			
		0/ 250					
(15) 1/5 VDC	(Including Linearity, Hysteresis, Zero offset & Span offset)	**0/ 400**			**(04)** 1/2" NPT (M)	**(HM)** 4 Pin Angle connector DIN EN 175301-803 C[4]	
(10) 0/10 VDC		**0/ 600**			**(02)** 1/4" NPT (M)		
(19) 1/9 VDC		**-1/ 0**	**bar**		**(15)** 1/2" BSP (M)	**(M12)** M12 Circular Connector	
		-1/ 3					
		-1/ 5	**bara**[1] (absolute)				
		-1/ 9					
		-1/ 15					
		0/ 1					
		0/ 1,6					
		0/ 2,5					
		0/ 4					
		0/ 6					
		0/ 10					
		0/ 16					
		0/ 25					
		0/ 40					
		0/ 60					
		0/ 100					
		0/ 160					
		0/ 250					
		0/ 400	Equivalent ranges in kPa, MPa, psi, kg/cm² and others units available				
		0/ 600					
		0/ 1000					
others on request		others on request			others on request		

1) Available for ranges 1 to 60 bar (15 to 1000 psi) 2) For electric Connection M12 only 3) Maximum range 600 bar 4) IP65 only

How to order

Type	Output signal	Accuracy	Range	Engineering unit	Protection	Process connection	Electrical connection	Option
PT11	42	025	0/10	BAR	=	MG9	M1	NH

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