

Piezoresistive Pressure Transducer Flush Diaphragm

SERIES 15 - 15 M

PAA-15/PAA-15 M Absolute Pressure

Zero at vacuum

Ranges : 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 bar

PA-15/PA-15 M Absolute Pressure

Zero at atmospheric pressure

Ranges : 1, 2, 5, 10, 20, 50, 100, 200, 400, 600, 1000 bar

PR-15/PR-15 M Gauge Pressure

Zero at atmospheric ambient

Overpressure , Ranges : 0.1, 0.2, 0.5, 1, 2, 5, 10, 20 bar

Underpressure , Ranges : -0.1, -0.2, -0.5, 1 bar

Description: Flush diaphragms are used in applications, where small dead volumes or very high frequencies are required, or where crusting danger of the measurand exists.

Series 15 M: This transducer is mainly used in ferment and sediment of equipment. It can be cleaned very fast due to the ease of its mounting and dismounting.

Excitation: In order to achieve the specified thermal Span Error, constant current must be applied to the bridge. The excitation current may range from 0.1 to 4 mA. The signal is proportional to the current.

Specifications (at 4 mA)

Ranges	bar	0.1	0.2	0.5	1	2	5	10	20
Max Press.	bar	2.5	2.5	2.5	2.5	4	7.5	15	30
FS Signal	mV	80	150	300	400	600	800	1000	1000

Ranges	bar	50	100	200	400	600	1000
Max Press.	bar	75	150	300	500	700	1100
FS Signal	mV	—	—	1000	—	—	—

Linearity and Hysteresis	%FS	<±0.5
Repeatability	%FS	<±0.1
Zero Offset	mV	<±20
(fine adjustment with potentiometer > 22 Ω)		

Compensated Range	°C	0 to 50	-10 to 80
Thermal Offset Error	mV/°C	<0.05	<0.1
Thermal Span Error	%/°C	<0.01	<0.025
Long Term Stability	mV	<1	<2

Material	Standard	Options
Housing	AISI 316L	Hastelloy/Tantalum
Diaphragm	AISI 316L	Platinum/Hastelloy
O-Ring	Nitril/Copper	Viton
Cable (2m long)	PVC	PTFE

