

Piezoresistive Pressure Transmitters

Absolute-, gauge- and differential pressure

Series 23 / 25

These piezoresistive transmitters have been designed for precision applications in industrial environments for pressures ranging from 0,2 to 1000 bar, liquids or gas.

Series 23: Male pressure port

Series 25: Flush diaphragm

A Complete Range

Absolute, barometric, gauge (over- and underpressure) and differential for wet/wet applications. 13 nominal pressure ranges. Current or voltage output.

Flexibility

A modular concept uses the selection of off-the-shelf capsules, allowing a customised production. Numerous options and variants are available, fully adapted to the customer's requirements: Mechanical and electrical interface, ports, signal outputs, materials in media contact, oil filling, oxygen-compatibility, special features.

Reliability / Quality

These transmitters use the highly stable KELLER Series 10 capsules, proven in millions of applications throughout the world. Each capsule is subjected to severe tests and calibration procedures.

The type of the transmitter is defined according to the reference pressure:

- PAA-23/25** Absolute Pressure Transmitter (Zero at 0 bar abs.)
- PA-23/25** Sealed Gauge Pressure Transmitter (Zero at 1 bar abs.)
- PR-23/25** Vented Gauge Pressure Transmitter (Zero at atmospheric)
- PD-23** Differential Pressure Transmitter (wet / wet)



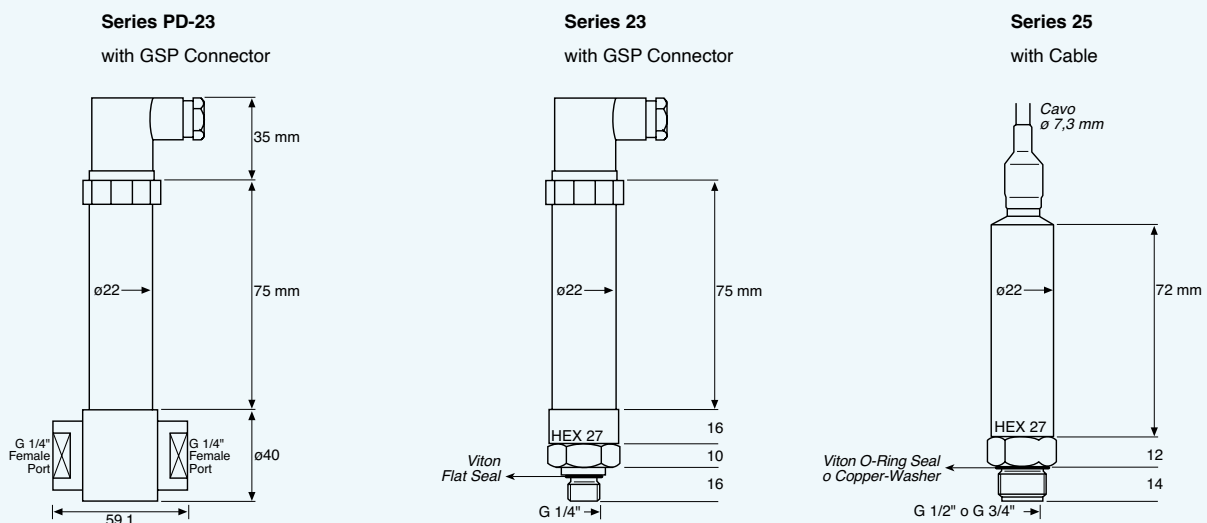
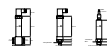
Series PD-23



Series 23



Series 25



For pricing or any further information, please contact Omni Instruments Ltd.

Specifications

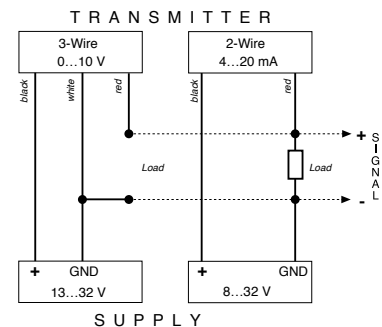
	Pressure Ranges (FS) in bar															
PR-23	-1	-0,5	-0,2	0,2	0,5	1	2	5	10	20						
PR-25	-1	-0,5			0,5	1	2	5	10	20						
PD-23				0,2	0,5	1	2	5	10	20						
PAA-23				0,2	0,5	1	2	5	10	20						
PAA-25					0,5	1	2	5	10	20						
PA-23/25						1	2	5	10	20	50	100	200	400	600	1000
Overpressure	-1	-1	-1	2,5	2,5	3	4	10	20	40	100	200	300	600	900	1100
Overpressure Ref.-Side PD					1	1	2	3	5	7	10					
PD, static line pressure	200 bar max.															
Accuracy*	± 0,2 %FS typ. ± 0,5 %FS max. *Linearity (best straight line) + Hysteresis + Repeatability															
Storage-/Operating Temperature	-40...100 °C															
Compensated Temperature Range	-10...80 °C															
Temperature Coefficients...	...of Zero, in %FS/°C															

Options

Pressure Connection, Electrical Out	On request, many possibilities
Pressure Ranges	Other pressure ranges between 0,2 and 1000 bar, different units
Accuracy (Linearity)	± 0,2 %FS max. or any customer requirement
Materials in Contact with Media	Many possibilities
Oil Filling	Fluorized oil (O ₂ -compatible), olive-oil, low temperature oil
Protection	IP67, IP68 (cable version)
Higher Static Line Pressure	up to 600 bar (PD only)

ELECTRICAL CONNECTIONS

2-Wire Transmitter	3-Wire Transmitter	GSP Connector	Binder 723	Cable
-	GND	1	1	white
OUT/GND	OUT	2	2	red
+Vcc	+Vcc	3	3	black



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