

BOG 2500

Pressure Sensor with Auto-Zero Functionality

Réf. BOG 2500

The BOG 2500 is a pressure transmitter designed to measure pressures and pressure differentials in air treatment systems. The pressure measurement is compensated for temperature in line with the ambient temperature. The output signal can be configured to represent either linear differential pressure or linear (volume) flow. M models are equipped with an RS-485 connection for Modbus RTU communication. The MG-SOD tool is essential for commissioning to configure the Modbus parameters. The transmitter's zero point is precisely maintained through regular auto-zeroing, effectively eliminating potential drift, so recalibration is typically unnecessary. The impact of process disturbances, such as turbulence, can be mitigated by choosing an appropriate time constant (2 s or 8 s). The N models feature a backlit display. The display resolution is 0.1 Pa for measured values below 200 Pa and 1 Pa for values exceeding 200 Pa; the screen may also be incorporated post-commissioning.



SELECTION OF MEASUREMENT RANGE

- Factory setting range of 0 to 2500 Pa, also applicable for custom range adjustments
- Selectable ranges: 0 to 2500 Pa, 0 to 2000 Pa, 0 to 1500 Pa, 0 to 1000 Pa, 0 to 500 Pa, 0 to 200 Pa, 0 to 100 Pa, ± 100 Pa
- Range limits can be modified using the setting tool MG-SOD
- Time constant selectable: 2 s or 8 s (default)
- Output signal selection: linear pressure (default) or linear flow

TECHNICAL SPECIFICATIONS

CHARACTERISTIC	VALUE
Power	24 Vac/dc, < 2 VA
Ranges	0 to 100, 0 to 200, 0 to 500, 0 to 1000, 0 to 1500, 0 to 2000, 0 to 2500 or ± 100 Pa
Precision	± 3 Pa ± 1 % of the displayed value (25 °C)
Time constant	2 s or 8 s
Output	0 to 10 Vdc, 2 mA / 4 to 20 mA, 700 ohm
Auto-zero	Automatic zeroing prevents measurement drift

IP	IP54, cable oriented downwards
Ambient temperature	0 to 45 °C
Cable gland	M16 with nuts
Mounting	Mounting eyes 105 x 102 mm
Dimensions	105 x 102 x 46 mm

ORDER GUIDE

REF	MODEL	DESCRIPTION
AACA2A0	BOG2500	Differential pressure transmitter
AACA2AA	BOG2500-N	Differential pressure transmitter with display
AACAC70	BOG2500M	Differential pressure transmitter featuring Modbus
AACAC7A	BOG2500M-N	Differential pressure transmitter with display and Modbus
AACA0A0	BOG-YS	BOG accessories
AAC0A00	2m flexible tubing	2 m flexible tubing
AAC90A0	MG-SOD	Transmitter commissioning tool