

BD510 Series 'MAGNELIX' Differential Pressure Gauge



Features

- Accuracy Class 2,0
- Indicating Positive, Negative and Differential range
- MAGNELIX indicating mechanism for DP low range
- Wide selection of range from 0..30Pa up to 30kPa
- Inertia-free, drift-free pointer indication
- External calibration device on the face of the gauge
- Service for Air and non-combustible gases
- Die cast aluminum case and bezel construction

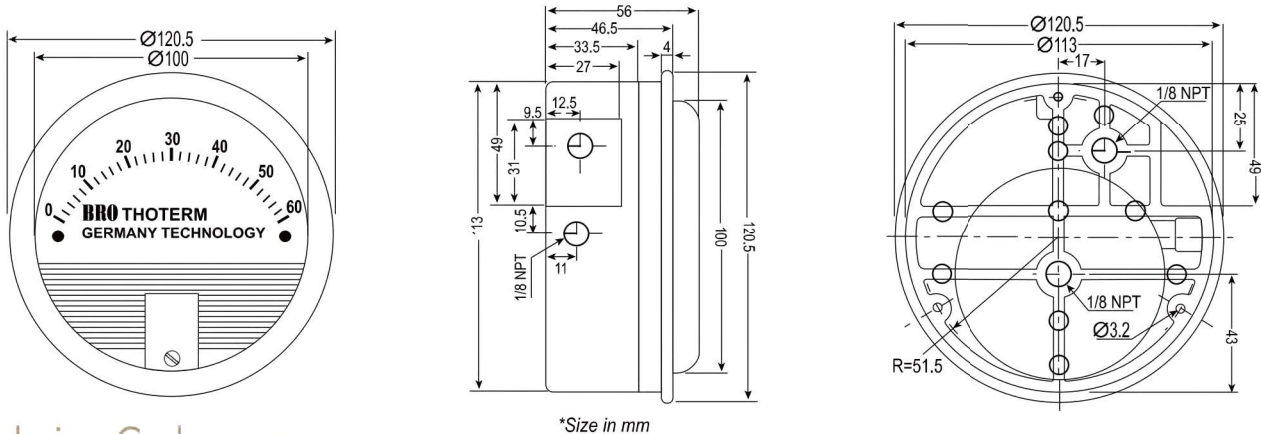
Application

BD510 series is designed as a device used to measure positive, negative and differential pressures. The measurement operated pressure acting on the diaphragm of the gauge moves the indicating pointer. The movement of the pointer is relayed and amplified through a magnetic linkage. The BD510 series widely used for filter condition checks, HVAC control, pharmaceutical, etc.

Technical Specification

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|------------------|---|----------------------|---|
| • Nominal Size | Dial 4" or 114 mm | • Housing | Die cast aluminum case and bezel, gray coating |
| • Accuracy Class | Class 2,0 of Full Scale at 20°C
Class 3,0 for 0.5" W.C., 125 Pa, 10 mmW.C.
Class 4,0 for 0.25" W.C., 6..8 mmW.C., 30..60 Pa
See details in range selection chart | • Window | Clear acrylic window, curved for easy reading |
| • Pressure range | 0.. 30 Pa up to 30 kPa, see table range for detail | • Mounting | Position at Vertical |
| • Pressure limit | -68 to +100 kPa | • Process connection | 1/8" Female NPT, high and low pressure taps :
2 pairs, each located at side and back of case |
| | | • Standard parts | 2 pcs of 1/8" NPT plugs for duplicated pressure taps
2 pcs of 1/8" pipe thread to rubber tubing adapter
3 pcs of flush mounting adapter with screws |

Technical Dimension



Ordering Code



BD510 <Pressure range>^① Mounting^②

①	Dual ranges		Single range			
	Inches W.C. & Pa	Inches of Water	cm of Water	mm of Water	kPa	Psi
	0..0.5 & 0..125 Pa	0..1.0	0..1	0.. 6	0.. 1	0.. 1
	0..1.0 & 0..250 Pa	0.. 2.0	0.. 2	0.. 8	0.. 1.5	0.. 2
	0..2.0 & 0..500 Pa	0.. 3.0	0.. 3	0.. 10	0.. 2	0.. 3
	0.. 3.0 & 0.. 750 Pa	0.. 4.0	0.. 4	0.. 15	0.. 3	0.. 4
	0.. 4.0 & 0.. 1.0 kPa	0.. 5.0	0.. 5	0.. 20	0.. 4	
	0..6.0 & 0..1.5 kPa	0.. 6.0	0.. 6	0.. 25	0.. 5	MBar
	0..8.0 & 0..2.0 kPa	0.. 8.0	0.. 8	0.. 30	0.. 8	0.. 20
	0..10 & 0..2.5 kPa	0.. 10	0.. 10	0.. 40	0.. 10	0.. 25
		0.. 15	0.. 15	0.. 50	0.. 15	0.. 50
	Air Velocity (Pitot tube)	0.. 20	0.. 20	0.. 60	0.. 20	0.. 60
	Unit range InHg	0.. 25	0.. 25	0.. 80	0.. 25	*10..0.10
	0..0.25 & 300.. 2000	0.. 30	0.. 30	0.. 100	0.. 30	
	0..0.5 & 500.. 2800	0.. 40	0.. 40	0.. 150	* 0.5..0.0.5	mmHg
	0..1.0 & 500.. 4000	0.. 50	0.. 50	0.. 200	* 1.5..0.1.5	0.. 4
	0.. 2.0 & 1000.. 5600	0.. 60	0.. 60	0.. 250		0.. 10
	0.. 10 & 2000..12500	0.. 80	0.. 80	0.. 300	Pa	
		0.. 100	0.. 100	0.. 500	0.. 30	Inches Hg
		0.. 150	0.. 150	0.. 1000	0.. 60	0.. 5
		* 0.25..0..0.25	0.. 200	*10..0.10	0.. 125	0.. 6
		* 0.5 ..0.. 0.5	0.. 250	*15..0.15	0.. 250	
		* 1..0..1	0.. 300		0.. 300	
		* 2 ..0..2	* 1 ..0.. 1		0.. 500	
		* 5 ..0..5	* 2 ..0.. 2		0.. 700	
		* 10..0..10	* 5 ..0.. 5		* 60 ..0.. 60	
		* 15..0..15	* 10..0..10		* 125..0..125	
			* 15..0..15		* 250 ..0.. 250	

②	Mounting
S	Surface mounting bracket
P	Flush or panel mounting bracket
I	Pipe mounting kit



* marking for 'Zero Center Range'

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