WIKA Datasheet 63X.50

Capsule Pressure Gauges Process Industry Series Type 632.50 - Dry Case Type 633.50 - Liquid-filled Case

Applications

- Robust design and weather protection, suitable for outdoor use
- Suitable for dry, gaseous media that will not attack 316 stainless steel parts
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Product features

- Zero-adjustment through window
- All stainless steel construction
- Low pressure ranges from 1" WC to 250" WC (2.5 mbar to 600 mbar)

Specifications

Design ASME B40.100 & EN 837-3

Sizes 21/2", 4" & 6" (63, 100 and 160 mm)

Accuracy class

±1.6% of span

Ranges

21/2" (63mm): 0...16" WC (40 mbar) to 0...250" WC (600 mbar) 4" (100mm): 0...6" WC (16 mbar) to 0...250" WC (600 mbar) 6" (160 mm): 0...1" WC (2.5 mbar) to 0...250" WC (600 mbar) or other equivalent units of pressure or vacuum

Working pressure

Steady: full scale value Fluctuating: 0.9 x full scale value

Operating temperature

Ambient: -4°F to +140°F (-20°C to +60°C) Medium: +212°F (+100°C) maximum

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) ±0.6% of span for every 18°F (10°K) rising or falling.

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Capsule Element Pressure Gauge Model 632.50

Weather protection

Weather resistant (NEMA 3 / IP54) With case filling (NEMA 4X / IP66)

Pressure connection

Material: 316L stainless steel Lower mount (LM) or center back mount (CBM) - 21/2" (63 mm) Lower mount (LM) or lower back mount (LBM) - 4" & 6" (100mm & 160mm) 1/4" NPT or 1/2" NPT limited to wrench flat area

Capsule element

Material: 316L stainless steel with Viton sealing ring

Movement Stainless steel

Zero adjustment in front on dial

Dial White aluminum with black lettering

Pointer Black aluminum

Case 304 stainless steel with stainless steel bayonet ring

Window Laminated safety glass, Acrylic for case filling (633.50)

Case fill Silicone - Type 633.50 (only available for full scale ranges \geq 40" WC)

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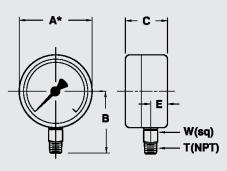




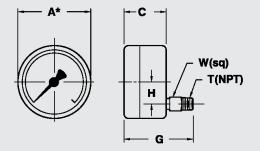
Optional extras

- Other pressure connections
- ±1.0% accuracy (ASME B40.100 Grade 1A), available in ranges >16" WC (632.50) and >40" WC (633.50)
- SS front flange, 4" (100mm) and 6" (160mm) only
- U-clamp mounting, SS, 4" (100mm) and 6" (160mm) only
- Silicone case filling
- Over and underpressure protection ≤ 10" WC (25mbar): 3X of full scale
 ≥ 10" WC (25mbar): 10X of full scale
- Special connections limited to wrench flat area
- Custom dial layout
- With output signal, size 4" (100mm) only, from ranges ≥ 25" WC (60 mbar)
- With inductive switch (831.XX), size 4" & 6" (100mm & 160mm), from ranges ≥ 40" WC (100 mbar)

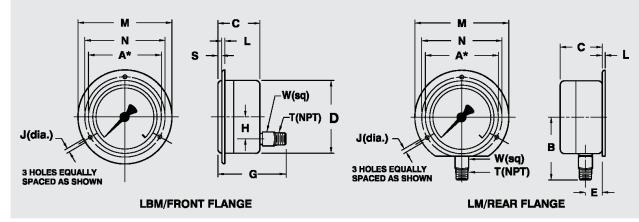
Dimensions



LOWER MOUNT



LOWER BACK MOUNT



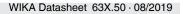
Size																
		Α	В	С	D	E	G	H ¹	J	L	М	Ν	S	Т	W	Weight ²
2.5"	mm	63	51	42	62	9	58	0	4	3	85	75	5		14	
	in	2.5	2.0	1.65	2.44	0.35	2.28	0	0.14	0.12	3.35	2.95	0.2	1/4"	0.55	0.41 lb.
4"	mm	100	85	49.5	99	15.5	78	30	4.8	3	132	116	5		22	
	in	4.0	3.35	1.95	3.9	0.61	3.07	1.18	0.19	0.12	5.20	4.57	0.2	1/2"	0.86	1.32 lb.
6"	mm	160	116	49.5	159	15.5	78	50	5.8	3	196	178	5		22	
	in	6.0	4.57	1.95	6.26	0.61	3.07	1.97	0.23	0.12	7.72	7.0	0.2	1/2"	0.86	2.42 lb.

¹ For size 2.5", connection is center back mount (CBM)

² Weight without optional accessories

Ordering information

Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing. Modifications may take place and materials specified may be replaced by others without prior notice.





WIKA Instrument Corporation 1000 Wiegand Boulevard Lawrenceville, GA 30043 Tel (770) 513-8200 Toll-free 1-888-WIKA-USA Fax (770) 338-5118 E-Mail info@wika.com www.wika.com

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