Bourdon Tube Pressure Gauges Solid-Front Process Gauge Type 212.34 - Dry Case Type 213.34 - Liquid-filled Case

WIKA Datasheet 21X.34

Applications

- With liquid filled case for applications with high dynamic pressure pulsations or vibration
- Suitable for corrosive environments and gaseous or liquid media that will not obstruct the pressure system
- Process industry: chemical/petrochemical, power stations, mining, on and offshore, environmental technology, mechanical engineering and plant construction

Special features

- Excellent load-cycle stability and shock resistance
- Solid front thermoplastic case
- Positive pressure ranges to 1,000 PSI

Standard Features

Design

ASME B40.100

Sizes

41/2" (115 mm) dial size

Accuracy class

± 0.5% of span (ASME B40.100 Grade 2A)

Ranges

Vacuum / Compound to 200 psi Pressure from 15 psi to 1,000 psi or other equivalent units of pressure or vacuum

Working pressure

Steady: full scale value
Fluctuating: 0.9 x full scale value
Short time: 1.5 x full scale value

Operating temperature

Ambient: -40°F to +150°F (-40°C to +65°C) - dry

-4°F to +150°F (-20°C to +65°C) - glycerine filled

-40°F to +150°F (-40°C to +65°C) - silicone filled

Medium: +150°F (+65°C) maximum

Temperature error

Additional error when temperature changes from reference temperature of 68°F (20°C) $\pm 0.4\%$ for every 18°F (10°C) rising or falling. Percentage of span.



Bourdon Tube Pressure Gauge Model 212.34

Weather protection

Weather resistant (NEMA 3 / IP54) - dry case Weather tight (NEMA 4X / IP65) - liquid-filled case

Pressure connection

Material: Copper alloy

Lower mount (LM) or lower back mount (LBM) 1/4" or 1/2" NPT with M4 internal tap

Bourdon tube

Material: Copper alloy

C-type

Movement

Copper alloy. Internal stop pin at 1.3 x full scale Overload and underload stops - standard Dampened movement - optional

Dial

White aluminum with black lettering, stop pin at 6 o'clock

Pointer

Black aluminum, adjustable

Case

Black glass-reinforced thermoplastic (PBTP) Solid front, blowout back Turret-style case with built in rear flange lugs



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Window

Clear acrylic with Buna-N gasket

Case filling

Glycerine 99.7% - Type 213.34

Shock & vibration

Shock resistant up to 100g force

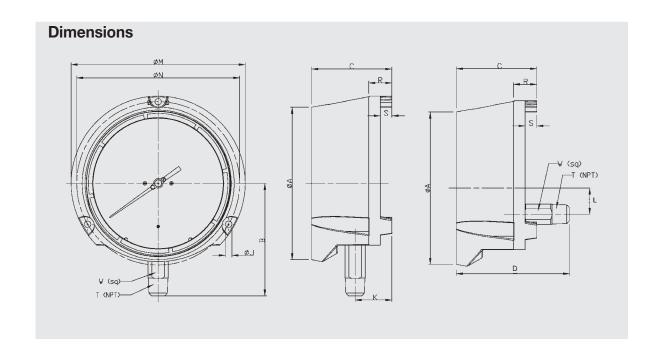
Cycle testing

400,000 - 2,000,000° cycles, depending upon pressure range

· Liquid filled

Optional extras

- Threaded restrictor
- Silicone dampened movement
- Panel mounting adaptor kit (field assembled)
- Silicone for fluorolube case filling
- Cleaned for oxygen service
- Instrument glass or safety glass window
- Alarm contacts switches (magnetic or inductive)
- Special process connections
- Custom dial layout



Size																
		Α	В	С	D	J	K	L	M	N	R	S	Т	W	Weight ¹	
4.5"	mm	128	103	84	120.3	6.3	40	28.5	148	136.5	25	12.5		22	2.0 lb.	dry
	in	5	4.06	3.31	4.74	0.248	1.57	1.12	5.83	53.7	0.99	0.49	1/2"	0.87	3.0 lb.	filled

¹ Weight without optional accessories

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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 30045 Tel (770) 513-8200 Toll-free 1-888-WIKA-USA Fax (770) 338-5118 E-Mail info@wika.com www.wika.com

WIKA Datasheet 21X.34 · 04/2005