

Pressure Indicator Gauge Series 1000 6" Dial

WIKA Datasheet 1000 6I

Applications

- Suitable for test, laboratory, and production applications

Special features

- These gauges have capsules up to and including the 150 psig range and Bourdon tubes in the higher ranges
- Pressure is applied to the capsule or Bourdon tube through a single case connection
- Available in 26 standard ranges, (including vacuum and compound ranges)

Standard Features

Ranges

-30" Hg to 1,000 psig

Accuracy

0.1% of full scale

Repeatability

0.03% of full scale

Sensitivity

0.01% of full scale

Hysteresis

0.1% of full scale for ranges of 150 psi and below;
0.2% of full scale for 200 psi and above

Maximum temperature effect

0.1% of full scale per 10°C/50°F change from 23°C/73.4°F

Scale length

30" through two pointer revolutions

Dial diameter

6"

Pressure element volume

Ranges 150 psi and below: 6.9 cc with pointer at zero;
8.6 cc, at full scale

Ranges 200 psi and above: 10 cc. For the range 1-125" water only: 6.3 cc with pointer at zero; 8.0 cc, at full scale

Case connections

150 psi and below, 1/8" female NPT; 200 psi and above, 1/4" female NPT. Both have a built-in stainless steel filter and are located in the bottom of the case.

Zero adjustment

A zero adjustment is accessible through the front of the case.



Pressure Indicator Gauge Model 1000 6"

Case construction

Aluminum, with tempered glass window. Bezel has no screw holes; the case has special clips for easy flush mounting.

Materials exposed to measured gas

50 psi and below (capsule): Ni-Span C[®]; brass, stainless steel, soft solder, silver solder. 303 stainless tubing and adapter with silver solder at the pressure connection are optional instead of brass and soft solder in the ranges up to and including 150 psi, but standard in the ranges of 200 psi and above.

200 psi and above (Bourdon tube): Ni-Span C[®], stainless steel, Easy-flow #45 brazing alloy, silver solder, nylon or TFE

Weight and shipping weight

Approx. 8 lbs.

Ordering information

When ordering, please specify ordering number, range, and mounting angle. (Extra cost if mounting angle is other than vertical).

Note: Gases must be non-corrosive, no liquid service.

Options

- Calibration in most metric units available at no extra cost. Other calibration units are available at extra cost
- Also available installed in a compact carrying case with a mounted panel for the gauge. The cover is easily removed and connections can be made without removing the gauge from the case.

Standard Features, cont.

Series 1000 6" Pressure Indicator Gauge

High Accuracy and Compact Size

Accuracy is 0.1% of full scale; dial diameter only 6". This combination of high accuracy and compact size makes for smaller and more efficient test stands, such as consoles for ground support equipment.

Excellent Readability

The pointer covers full scale in two revolutions, permitting a scale 30" long. This is more than twice as long as same size single-revolution gauges. It permits up to 1000 scale graduations with a minimum of 1/32" of white space between them. This and a knife-edge pointer allow readings to better than 0.03% of full scale.

Performs Better than the Rated Accuracy

Excellent readability, custom dial calibration, and individual matching and adjustment of each mechanism to its dial add up to an accuracy of 0.1% full scale. This figure is the minimum, which can be expected. After rigorous testing, any WIKA gauge which fails to better the rated accuracy is rejected.

Calibration is Traceable to National Institute of Standards and Technology (NIST)

A computer-assisted plotter marks calibration points and the graduations between them on each dial. This produces a scale, which precisely matches the characteristics of each mechanism and pressure element. Instruments supplied are certified traceable to NIST.

Solid-Front Construction

The case has a heavy aluminum solid-front and a blow-out plug back. The pressure inlet is only 1 1/16" in diameter; the blow-out-plug is 1 1/2". This design gives excellent protection against excessive pressure as the plug relieves at the slightest build-up. The case is heavy cast aluminum with a tempered glass window. Overpressuring the instrument up to 10% above its full scale range will not damage the mechanism nor affect accuracy.

Series 1000 6" Pressure Indicator Gauge

Standard Ranges and Ordering Numbers

Range and Calibration	Ordering Number	Graduation
0-4.5 psi	62B-2A-0005	0.01 psi
0-10 psi	62B-2A-0010	0.02 psi
0-15.5 psi	62B-2A-0015	0.02 psi
0-20 psi	62B-2A-0020	0.05 psi
0-30 psi	62B-2A-0030	0.05 psi
0-45 psi	62B-2A-0045	0.1 psi
0-60 psi	62B-2A-0060	0.1 psi
0-100 psi	62B-2A-0100	0.2 psi
0-150 psi	62B-2A-0150	0.2 psi
0-200 psi	62B-2A-0200	0.5 psi
0-300 psi	62B-2A-0300	0.5 psi
0-500 psi	62B-2A-0500	1.0 psi
0-1,000 psi	62B-2A-1000	2.0 psi

Range and Calibration	Ordering Number	Graduation
0-125" water	62B-2C-0125	0.2"
0-280" water	62B-2C-0280	0.5"
0-800 mm Hg	62B-2D-0800	1.0 mm
0-31.5 mm Hg	62B-2B-0031	0.05"
0-60" Hg	62B-2B-0060	0.1"
0-120" Hg	62B-2B-0120	0.2"
0-200" Hg	62B-2B-0200	0.5"
0-300" Hg	62B-2B-0300	0.5"

Vacuum and Compound Ranges

Range	Ordering Number	Graduation
-30" Hg to 0	62B-3B-0030**	0.05"
-15 to 0 to 15" Hg	62B-5B-0030**	0.05"
-30 to 0 to 30" Hg	62B-5B-0060**	0.1"
-30 to 0 to 90" Hg	62B-5B-0120**	0.2"
-30 to 0 to 270" Hg	62B-5B-0300**	0.5"

** Can be calibrated as shown, or in any other standard pressure unit at no extra cost. Specify if other than in Hg.

