

# Pressure Indicator Gauge Series 1500 8½" Dial

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WIKA Datasheet 1500 8.5I

## Applications

- Suitable for test and laboratory and production applications

## Special features

- Capsule-type pressure elements up to and including 150 psig, Bourdon tubes for ranges of 200 psig and above
- Tempered-glass window, solid-front dial and a blow-out plug on the back
- Available in 26 standard ranges (including vacuum and compound ranges)
- Also available installed in a compact, suitcase-type carrying case with a mounted panel for the gauge. Cover is easily removed and connections can be made without removing the gauge from the case.

## Standard features

### Accuracy

0.066% of full scale

### Range

-30" Hg -1,000 psig

### 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

Approx. 45° through 2 pointer revolutions

### Dial diameter

8½"

### Pressure element volume

Ranges <150 psi 6.9 cc with pointer at zero 8.6 cc

At full scale ranges 200 psi and above 10 cc.

For the range 0-125" water only 6.3 cc with pointer at zero;

8.0 cc, at full scale

### Case pressure

Cases are open to atmosphere.



Pressure Indicator Gauge Series 1500 - 8.5" Dial

### Case connections

150 psi and below, ⅛" female NPT, 200 psi and above, ¼" female NPT built-in stainless steel filter at the bottom of case

### Case construction

Aluminum with tempered-glass window, flush mounted

### Zero adjustment

Accessible through both the front and the back of the case

### Options

- Calibration in most metric units available at no extra cost. Other calibration units and dual scale graduations are available at extra cost.
- Gauge 1500 8.5" is available installed in a compact, suitcase-type 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

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

### Weight and shipping weight

12 lbs.

### Ordering information

Please specify ordering number, range, and mounting angle, (extra cost if mounting angle other than vertical)

## Standard features, cont.

### Series 1500 8½" Pressure Indicator Gauge

#### Wide Spaced Graduations Give Excellent Readability

Because the pointer covers full scale in two revolutions, Series 1500 scales are approximately 45" long. This is more than twice as long as single-revolution gauges with the same dial diameter (8½") and longer than gauges with twice the dial diameter. The expanded scale allows a minimum of 0.045" of white space between graduations.

#### Accurate Readout at a Glance

Compactness makes readout convenient as well as accurate. The operator takes readings from one position, which is not possible with large-diameter gauges. This cuts fatigue and errors. A revolution indicator is included and a mirror ring eliminates parallax errors. Graduations are easily seen; bold numbers are horizontally placed.

#### 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.

#### Compact Size Saves Space in Panels

With the two-revolution arrangement, the long scale (approx. 45") requires a dial only 8½" in diameter, making more compact test units possible, such as consoles for ground support equipment.

#### Performs Better than the Rated Accuracy

Custom dial calibration, and individual assembly and adjustment of each mechanism add up to an accuracy of 0.066% full scale. This figure is the minimum performance which can be expected. After rigorous testing any WIKA gauge which fails to better the rated accuracy is rejected.

#### Solid-Front Construction

The case has a heavy aluminum solid-front and a blow-out plug in back of the case. The pressure inlet is only 1/16" in diameter; the blow-out plug is 1½". 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 1500 8½" Pressure Indicator Gauge

#### Standard Ranges and Ordering Numbers

Range and Calibration	Ordering Number	Graduation
0-4.5 psi	62A-2A-0005	0.005 psi
0-10 psi	62A-2A-0010	0.01 psi
0-15.5 psi	62A-2A-0015	0.02 psi
0-20 psi	62A-2A-0020	0.02 psi
0-30 psi	62A-2A-0030	0.05 psi
0-45 psi	62A-2A-0045	0.05 psi
0-60 psi	62A-2A-0060	0.1 psi
0-100 psi	62A-2A-0100	0.1 psi
0-150 psi	62A-2A-0150	0.2 psi
0-200 psi	62A-2A-0200	0.2 psi
0-300 psi	62A-2A-0300	0.5 psi
0-500 psi	62A-2A-0500	0.5 psi
0-1,000 psi	62A-2A-1000	1.0 psi

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

#### Vacuum and Compound Ranges

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

