

DAG-2000 Air Gauge Display with 5 Light Judgment

The Series DAG-2000 air gauge micrometer display is a precision, non-contact measuring instrument when combined with a customized air probe sensor. Air gauge measurement has been around for decades. It is a non-destructive testing method that utilizes air flow and the resistance created between an object under test and the air gauge's sensing probe. The air resistance or back pressure changes with distance between the air probe and device under test. This air pressure change out of the air sensor can be scaled on a display to determine dimensional analysis as well as product acceptance.

The DAG-2000 Gauge display with separate, customized air probe sensor performs fast, easy and precise dimensional analysis on components. Pass/Fail feedback is instant with the integral easy view 5 light color LED for go/no go indication (-NG, -OK, OK, +OK, +NG).

All DAG-2000's come standard with RS-232 serial communications for data analysis on PC's. An Excel spreadsheet program is available for download for free from the Shimpo website that allows communication with up to 5 units simultaneously.

The air gauge technology offers sufficient magnification and reliability to measure small tolerances down to 0.1 micron. Due to its fast response, outstanding tolerance and accurate repeatability, Tosok air gauge micrometers are ideal for quality measurements on the production floor.



Features

- 4 Digit, 3 color display with 5 light judgment rank makes it easy to quickly view measurements and make go/no-go judgments
- Actual values presented on the 8-digit alphanumeric display
- In coordination with the max./min. masters and the air probe sensor, control keys are used to automatically calibrate the zero and full scale of the display
- 10 settings can be programmed to save master values allowing quick retrieval for future tests
- Sensitivity adjustment knob allows fine tuning for more precise air control
- External signal input allows for automatic master calibration of zero and span with separate input switch
- Utilizing the standard serial output communications, data can be downloaded to a PC for processing and further evaluation
- Several options are available such as rank judgment and judgment result output, rank output, peak reading, BCD output, and Digimatic output.

DAG-2000 Specifications

Input	1 air channel
Measuring range μm (mm)	10 (0.0100), 20 (0.0200), 50 (0.0500), 100 (0.100)
Resolution in μm (mm)	0.1 (0.0001), 0.2 (0.0002), 0.5 (0.0005), 1 (0.001)
Shift Range	$\pm 1000\%$ (full scale)
Display	4 digit 3 color with 5 lamp judgment rank indication.
Auto Mastering Range	Zero position: $\pm 50\%$ (full scale) Sensitivity: $\pm 20\%$ (full scale)
Power Requirement	85 to 264 VAC, 50/60 Hz 100-VAC
Power Supply Capacity	30 VA
Air Supply Pressure	28.4 psi (196 kPa)
Source Pressure	43.5 psi (300 kPa) to 101.5 psi (700 kPa)
Air Supply Volume	106 cfh (50 l/min)
Operating Temperature	32 to 113°F (0 to 45°C)
Dimensions	4.7" wide x 7" deep x 6" height (120 x 180 x 150 mm)
Weight	4.85 lb (2.2 kg)
Warranty	1 Year



Customized Air Probe Sensor with Maximum & Minimum Calibration Masters. Ordered separately.

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Ordering Details

DAG2001-1	Air gauge micrometer display with 10 micron range, 1 channel
DAG2002-1	Air gauge micrometer display with 20 micron range, 1 channel
DAG2005-1	Air gauge micrometer display with 50 micron range, 1 channel
DAG2010-1	Air gauge micrometer display with 100 micron range, 1 channel

Options

-DP	Digimatic Output
-DC	Judgment Result Output
-P	Peak Measurement Function
-R	Rank Judgment
-DR	Rank Output
-BC	BCD Output

Optional Accessories

CAG2000-OP-AF	Air Filter & oil Separator with manual drain
CAG2000-OP-AR	Precision Regulator
CAG2000-OP-CB-1	RS-232 Communication Cable 9 pin for PC
FSW-1	Foot Switch Single Type