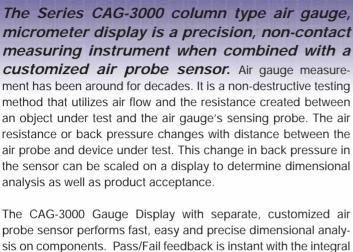
# SHIMPO INSTRUMENTS

Measuring Quality

CAG-3000 Air Gauge Display with Vertical Bar Graph



The CAG-3000 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 three-color LED bar-graph display. Column displays can also be conveniently daisy-chained with additional units to allow quick inspections of multiple dimensions with various sensors. All CAG-3000's come standard with RS-232 serial communications for data analysis on PLC'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

- Red/Orange/Green 3- color, 101 segment bar graph display with programmable set points makes it easy to quickly view measurements and make go/no-go judgments
- Actual values presented on the 8-digit alphanumeric display
- The display can be programmed to show technical drawing tolerances
- 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
- Possesses a light weight and slim 2" (50mm) wide frame allowing for placement on any bench, plus enables a small foot-print when daisy-chaining units
- 10 types of setting 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
- Optional peak function or rank output available



#### CAG-3000 Specifications

Input	1 air channel	
Measuring range μm (mm)	20 (0.0200), 50 (0.0500), 100 (0.100)	
Resolution in $\mu$ m (mm)	0.2 (0.0002), 0.5 (0.0005), 1 (0.001)	
Shift Range	±1000% (full scale)	
Display	Bar graph: 101 segment 3 color with Green (OK), Red (No Go) Measurement Values: 7 digits plus decimal point	
Auto Mastering Range	Zero position: ±50% (full scale) Sensitivity: ±20% (full scale)	
Power Requirement	85 to 264 VAC, 50/60 Hz 100-VAC	
<b>Power Supply Capacity</b>	30 VA	
Air Supply Pressure	28.4 psi (196 kPa )	
Source Pressure	58 to 87 psi (400 to 600 kPa)	
Air Supply Volume	106 cfh (50 l/min)	
Operating Temperature	32 to 113°F (0 to 45°C)	
Dimensions	2" wide x 19" high x 8" deep (50 × 480 × 200 mm)	
Weight	4.4 lb (2 kg)	
Warranty	1 Year	

## Ordering Details

CAG3002-103	Air gauge micrometer display with 20 micron range
CAG3005-111	Air gauge micrometer display with 50 micron range
CAG3010-111	Air gauge micrometer display with 100 micron range

### Options

-Р	Peak Measurement Function
-R	Rank Display Function

### **Optional Accessories**

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



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



CAG-3000 Shown Stacked in Multiple Columns

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