

## PRODUCT INFORMATION

### **AIR VOLUME TESTER**

Cosmo's air volume tester "AV-5500" is a high-speed, high-accuracy volume tester that uses air pressure. The tester can accurately measure the volume by detecting fine differential pressure generated by the difference in volumes of the reference part (reference volume) and the tested part using a high-accuracy differential pressure sensor.



## Features -----

- Automatic volume compensation when leak occurrs
   Even when there is a fine leak in the tested part (Work) or the sealing, the volume can be accurately measured by automatic compensation.
- Leak testing function is also available
   The tester has a function of leak test. Leaks in the tested part (Work) can be measured quantitatively.
- Compensation of test pressure variations
   Volumes can be accurately measured all the time by automatically compensating the variations in test pressure using a high-accuracy pressure sensor.

# AV-5500 Air Volume Tester

#### Applications

- Volume measurement: Various containers
- Cylinder head combustion chamber
- Piston head
- · Part shortage inspection
- Volume measurement of liquid containers

### Specification

Differential pressure range (Minimum display)	Standard: ±10kPa (1Pa)	
Accuracy of volume measurement (Depending on measurement condition)	±0.3% (Accuracy range: ±5% of absolute volume)	
Test pressure range	Standard: 200kPa Optional: EP Regulator model 100kPa	
Compensation	Compensation of measured volume when there is a leak	
	Compensation of test pressure variations	
	Zero-adjustment of volume difference with respect to the reference part (Master)	
Pneumatic circuit	Pneumatic circuit with air-operated valves	

Number of channels		32 (Judgment value, Timer, Volume calibration value)
Limit setting		4 settings, HH, HI, LO, LL
Quality management display		1000 data (The number of channels is limited.)
Display units	Volume difference	mL
	Absolute volume	mL
	Leak test	mL/min., Pa
	Test pressure	kPa
Data output		RS232C
I/O		Open collector
Power source		100 to 240VAC (50 to 60Hz)
External dimensions		282 × 296 × 325 Integrated type

<sup>\*</sup> The contents in this Product Information are as of August 2014. The information is subject to change without prior notice.

COSMO INSTRUMENTS CO., LTD.

2974-23 Ishikawa Hachioji, Toyo Japan Phone: +81-(0)42-642-1357 Fax: +81-(0)42-646-2439

http://www.cosmo-k.co.jp/

China U.S.A Korea Taiwan Malaysia Indonesia Vietnam Thailand India Brazil

Germany Australia U.K. Mexico