

PRODUCT INFORMATION

AIR FLOW TESTER



**Compact body with
full of useful functions.**

AF-2400
AIR FLOW TESTER

AF-2400 equips the mass flow sensor. All necessary measurement circuit is inside of its compact body. That means you just need to press the start button and AF-2400 will take care of the rest, automatically start measurement and make judgment.

Specially developed air-operated valve which is compact but have big diameter allow stable flow measurement in shorter period of time

Application Example

- Various valve flow characteristics check
- Automobile parts flow check
- Gas instruments flow check

■ Features

Display	Full-dot LCD with back light	Sensor Protection	Air blow at every exhaust stage. In every test, the cleaning of pneumatic circuit is automatically carried out
Sensor	Mass flow sensor	Bar Graph Display	Max, 1000 data Compensation sampling data
Charge Hold	With Charge hold function	Detection Judgment Mode	Judgment at either the end of detection stage or when the measurement exceeds the limit
Limit Setting	Two high level (HH/Hi) NG and one low level(Lo) NG setting	Converted Temperature	Selection from 20°C / 0°C
Noise Reduction	Repeating check if the result is in Hi-NG to HH-NG range	Digital Filter	Filter constant (0 ~ 99) to average readings and produce highly stable measurement
Setting Mode	Basic: Quick setup of basic parameter Advanced: Detailed and customized settings	Counter	The number of Total, Pass, Fail
Compensation	Automatic compensation after figuring the correct draft amount out	Password Change	Any 4 digit numbers can be arranged as password
Exhaust Interference Prevention	Exhaust timing can be externally controlled		
I/O	NPN-PNP Dual type		

■ Options

Code	Option	Description
B	Bypass Circuit	Effective for large volume WORK etc. Extra pressurization passage at CHG stage by built-in Bypass valve
G	Exhaust Valve Compliant (Exhaust valve need to be purchased separately)	Exhaust by the external unit. Exhaust valve could prevent oil/contaminants from WORK to tester
N6	Cylinder Control Output	Output available from the start till just before the end signal. Can be used for clamping signal
P	Speed Controller for Regulator Relief	Speed controller used for stabilizing the pressure adjustment

Specifications

Flow Range (Display Value)	500mL/min (000 to 500) 2L/min (0.000 to 2.000) 5L/min (0.00 to 5.00) 20L/min (00.00 to 20.00) 50L/min (00.0 to 50.0) 100L/min (000.0 to 100.0)
Sensor	Mass flow sensor
Pressure Media	Air
Accuracy	±1.5%F.S. ±1digit (Specified pressure) ±3.0%F.S. ±1digit (Non specified pressure)
Specified Test Pressure Range	Micro (L03): 10 to 30kPa Low (L): 30 to 80kPa Medium(M): 30 to 700kPa Vacuum(V): -10 to -70kPa (up to -30kPa for 100L/min)
Pressure Proof	1.5MPa
Channels	32ch (0 to 31)
Timer Setting	Max 999.9 sec (Min 0.1 sec)
Power Supply	AC100 to 240V ± 10%, 50/60Hz, 100VA max
Pressure Source	Clean and dry air. Pressure source should be higher than the test pressure

Tubing Connection Diameter	Rc 1/4 (Pressure source, Pilot pressure) Rc 1/2 (WORK port)	
CPU	16 BIT CPU	
Operating Temperature	5~45 °C	
Humidity	Max. 80 %RH and no condensation	
Weight	Approx. 12 kg	
RS-232C Format	T Format Fixed length output	Output for judgment signal and flow rate data
Serial Printer Output	Printer format	(Data output) Judgment result, Leak rate, Compensation value, Test pressure, WK#, CH#, Time etc (Setting Output) Setting parameter of all screen
Flow Rate Display	L/min, mL/min, L/s, mL/s, L/h, m ³ /h, USP (User Span)	
Pressure Unit	kPa, MPa	
Standard and attachments	Quick connection fittings, interface connectors, power cable, inspection record and operation manual	

Model

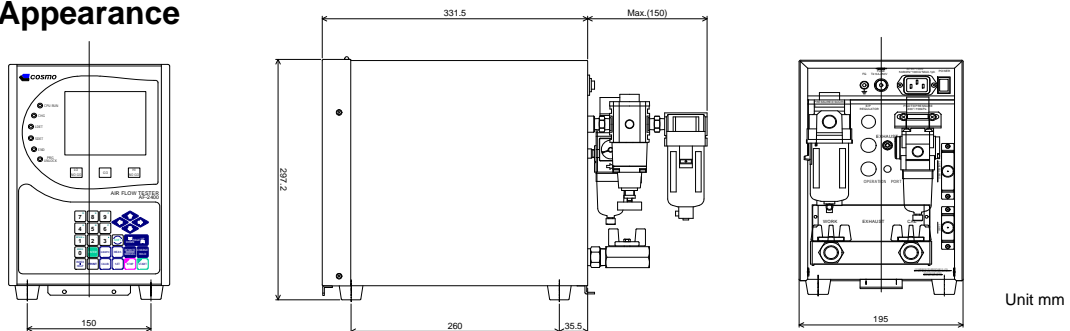
AF-2400 □ — BG..... (□□L、□□KP、S)

Basic Pressure Range Option Code Flow Rate Test Pressure Converted Temperature
S: 20°C, N: 0°C

Test Pressure Range

	CODE	Pressure Range		CODE	Pressure Range
Micro	L03	10~30kPa	Medium	M	30~700kPa
Low	L1	30~80kPa	Vacuum	V	-10~-70kPa

External Appearance



※Information in this document is correct as of February 2013. Specification is subject to change without prior notice

COSMO INSTRUMENTS CO., LTD.

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

Representative Offices

Head Office 〒192-0032
2974-23, Ishikawa, Hachioji, Tokyo, Japan
TEL(042)642-1357 FAX(042)646-2439

Overseas Contact
China • USA • Korea • Taiwan • Malaysia
Thailand • Indonesia • Vietnam • India •
Brazil • Germany • UK • Australia