



Air Leak Tester

LS-1842



ISO 9001 Certified
JQA-QM3681



MAJOR PERFORMANCE
AND FEATURE
ENHANCEMENTS ALLOW
FOR FASTER, MORE
PRECISE TESTING
WITHOUT SACRIFICING
QUALITY.

- ◆ Error-minimizing Features
- ◆ Faster Cycle Times
- ◆ Higher Detection Capabilities
- ◆ Easy Connections for Sensitivity Checks and Calibrations
- ◆ Flexible Function
- ◆ Greater Accuracy

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COSMO INSTRUMENTS COMPANY, LTD

Leak and Flow Test Specialists Since 1971

Top Customer Demands	Features	Benefits
REDUCE TEST TIMES	Advanced Electronics and Differential Pressure Sensor	The High Performance AD Converter can resolve measurements as low as 0.0000145psi (0.1Pa). Improved resolution minimizes time required to detect small leaks. Cosmo also has the most diverse Differential Pressure Sensor (DPS) on the market today. The DPS can handle pressures from a full vacuum up to 695psi.
MINIMIZE DRIFT ERRORS	Mastering Feature	Compensate for drifts from environmental and adiabatic changes to provide enhanced detection accuracy and faster testing.
ENHANCED MEASUREMENT	Noise Reduction	This feature eliminates false rejects due to uncontrollable test noise or interference and saves valuable production time by eliminating the need for complete re-testing.
SIMPLIFIED PROCESS	Automatic Leak Calibrator	Initial part setup requires only the touch of a few buttons.
EASY MAINTENANCE	Calibration Ports	Easy front panel access allows for quick sensitivity checks and/or comprehensive sensor verification.
	Self Check-Feature (patent pending)	A sensor performance check and a functional valve check are initiated at the end of each test cycle to ensure tester reliability.
MULTI-MODELS AND LOW VOLUME PRODUCTION	32 Program Capability	Test a variety of part styles or perform multiple tests on one part. Extremely flexible.
	Electronic Pressure Regulator	This optional regulator has programmable settings that allow various pressures and pressure sequences to be programmed for each channel.

◆ SPECIFICATIONS

Note: Specifications and dimensions are subject to change at manufacturer's discretion.

Differential Pressure Sensor	Resolution	0.1Pa (0.0000145 psi)
	Full Scale	1500 Pa (0.217 psid)
	Proof Pressure	5MPa (725 psig)
Display Unit	Test Pressure	psi, kPa, Bar, inH ₂ O, inHg, kg/cm ² , MPa, mbar, mmHg, cmHg, inHg
	Leak Level	ml/min, ml/sec, mmH ₂ O, Pa, kPa, inH ₂ O, mmHg, in ³ /min, in ³ /day, ft ³ /hr
Test Pressure Range		Vacuum to 695 psig
Number of channels		32 ch (0-31)
Timer Setting Range		999.9 seconds (0.1 sec resolution)
Power Source		100-240VAC ±10% 50/60Hz, 100VA max.
Test Pressure Source		Clean dry air source sufficiently higher than test pressure
Pneumatic Connections		1/4" NPT for test ports and supply air; 1/8" NPT for Pilot Pressure Inlet
Pilot Pressure Source		Clean dry air source between 60 and 100 psi
CPU		16-bit CPU
Ambient Temperature		5-40°Celsius
Ambient Humidity		80% RH non-condensing
Dimensions		282mm/11.1in (W) x 275mm/10.83in (H) x 455mm/18in (D) *Add approximately 203mm/8in to depth for regulator and mist separator.
Weight		Approx. 42 Lbs. (19Kg)
Serial Port COM1 (RS-232C) (Selectable output format)	T/F fixed-length output (optional setting)	Test data and test conditions are dumped each test
	I/F fixed-length output (default setting)	Only test data is output
Centronics-compatible printer interface		(Data Output) Judgement, leak rate, compensation value, test pressure, Work #, Channel #, etc. (Set Output) Complete program dump for given channel
Analog Output		Differential Pressure F.S. 1VDC, Test Pressure F.S. 1VDC
Standard Components and Accessories		Oil mist separator (Excluding High & Extremely High Pressure Types), mounting brackets, interface connectors, power cable (3m), inspection record, and operation manual



FOR ADDITIONAL INFORMATION VISIT OUR WEBSITE: www.cosmoinstruments.com

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