



Worker Integra™

Multi-Channel Leak, Leak/Flow or Leak/Occlusion Tester

The Worker Integra is an integrated process control tool, with repeatable and quantitative results, it is an affordable unit for everyday leak, flow and occlusion testing requirements.

A one to four channel, bench-top, high resolution (as low as 0.0001 psig) leak test instrument with a small footprint and userfriendly ease of operation.

The system can be configured to perform pressure or vacuum decay leak testing, flow and occlusion testing on non-porous, flexible or rigid products.

Models are available for pressure ranges from 15 to 150 psig, or vacuum, and flow rates from as little as 10 sccm to as much as 10 lpm.

Typical Applications

Icon-Based Touch Screen Color Control

The touch screen display provides easy, clear navigation through the wide variety of data handling and review screens. Clearly defined icons make it easy to choose the test modes, select parameters, and view test results with an interactive graph that makes it easy to view the pressure or flow during the test.

Programs

The Worker Integra allows users to input test settings using a touch screen menu and parameters that can be stored as programs, while tracking lot codes, operator name, and other vital information. Programs can be associated with specific items under test to maximize operator efficiency and accuracy when a variety of products are being tested. The instrument can store over 100 programs in memory, to be recalled at the touch of an operator.

Test Results

All test results in the data log can be navigated and reviewed with ease. The advanced communications functions include an RS-232 port and USB slave serial port that log test results and can accept remote start commands. Data may be exported to USB storage devices and are accessible over the LAN using any web enabled browser. The Worker Integra's data storage meets FDA 21 CFR Part 11 standards for security.

Leak Testing

Leak Testing with the TME Worker Integra is simply pressure sensing, with its high performance resulting from our propriety sensing technology and low internal volume design. When the tested product is connected to the front panel test port, internal valves allow air (or other gas) to pressurize the part and connect the part to the sensing transducer. Pressure changes as low as 0.0001 psi are detected from leaks in the tested part.

Vacuum Decay Testing

Vacuum Decay Testing functions similarly to pressure decay tests; however, vacuum tests are limited to less than one atmosphere test pressure and are usually performed where specifications of the test part demand this pressure differential.

Flow Testing

Flow Testing uses a precision mass flow sensor to make a direct measurement of airflow through the tested part. A direct flow reading means no separate pressure measurements or special calculations are made in the instrument.

Occlusion Testing

Occlusion Testing is a special type of flow test in which the instrument measures the back pressure of air flowing through the part to determine the extent to which the part is occluded.

Models

Test Modes by Model

Leak

Leak Occlusion Link

Leak+Flow

Leak Flow Occlusion Link

E/P Regulator

***same as with automatic electronic regulator**

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Pressure Specifications

Model	Vaccum	Pressure/ Vacuum	15 psi	50 psi	100 psi	150psi
Range (Psig)	-13.5 - -0.5	0 - 30 PSIA	0.5 - 15	1.0 - 50	2 - 100	2 - 150
Resolution (Psig)	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
Pressure accuracy +/- 0.5% FSD	+/- 0.068	+/- 0.075	+/- 0.075	+/- 0.25	+/- 0.50	+/- 0.75
Repeatability (6 sigma/FSD)	<1%	<1%	<1%	<1%	<1%	<1%

Flow Specifications

Flow Ranges (SCCM)	0.1-10	10.0 - 500	20 -1,000	100 - 5,000	200 - 10,000
Accuracy +/- 2% FSD	+/- 0..2	+/- 10.0	+/- 20.0	+/- 100	+/- 200
Resolution (SCCM) FSD)	0.1	0.1	0.1	0.1	0.1

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Technical Specification

Dimensions	10"W x 10"D x 9"H 25.4 W x 25.4D x 22.86H cm
Test Channels	Single Channel up to 4 Channels
Display	5.7" QVFA Color Touch screen
LAN (Network)	RJ45-LAN (remote VNC, Telnet, Web-browser)
Power	90-240V@ 50-60Hz (60 Watt max)
Pressure control	Push buttons, Touch pad Keylock, Power on/off
Test Modes	Leak, Flow, Occlusion, and up to 3 linked tests
Accessory I/O	8 Opto Outputs, 8 Inputs, 3 Digital I/O Input for remote start/stop Output pass and fail
Storage and/or Operating Environment	10-30°C (50-90°F) RH < 80%, non-condensing
Pressure Units	Psig, InH2O, mBar, kPa, Inhg
Memory Capacity	128 Mbytes (expandable internal option to 512 Mb)
Calibration	NIST Traceable
Test Time	0.1 to 1,000 sec (resolution 0.1 sec)
Controls	LED Start /Stop buttons Keylock, Power Button
Flow Units	sccm, sLPM, scfm
Peripherals (I/O)	USB Host Port (1 front, 1 rear) HID intecae: mouse, key board, bar code reader Mass Storage: export data to USB ash memory Printers: Output results and test parameters USB Device Port (Virtual COM port control Serial RS-232 (DB9)
System CPU	32 bit floating point precision

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