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 (aslowas 0.0001 psig)leaktest instrument with a small footprint and user-friendly ease of operation.

me 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.

TM Electronics' Technical Specialists are highly experienced and ready to assist you in determining and solving yourleak, flow and package testing needs and in getting the most out of your test system.

Inadditiontoourwiderangeofpackagetesting accessories, ourDesignEngineeringteamcan provide you with help in addressing unique package testing situations and requirements.

Visit us at www.tmelectronics.com for more information on the technology of leak, flow and occlusion testing and how we can be sthelp you.

Standard test modes:

Pressure or Vacuum decay leak, Back pressure Occlusion, or Flow rate (optional) On 1 to 4 channels

Standard I/O functions: USB connection to PC USB ports for keyboard, mouse, printer, or barcode reader

USB storage support for program data and datalog record export

LAN remote instrument control, data transfer, and operation Web interface for datalog review

Meets FDA CFR 21 Part

11 NIST traceable

Icon-Based Touch Screen Color Control



Thetouchscreendisplay provides easy, clear navigation though the wide variety of data handling and review screens. Clearly defined iconsmakeiteasyto choose the test modes, select parameters, and viewtest results with an interactive graph that makesiteasy to view the pressure orflow during the test.

Programs

The Worker Integra allows users to input test settings using atouch screen menu and parameters that can be stored asprograms, 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. me instrument can store over 100 programs inmemory, to be recalled at the touch of an operator.

Test Results

Alltestresults in the data log can be navigated and reviewed with ease. me advanced communications functions include an RS-232 portand 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. me Worker Integra's datastoragemeets FDACFR21Part11 standards for security.

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.

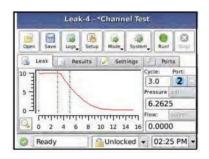
Vacuum Decay Testing functions similarly to pressure decay tests; however, vacuum tests are limited to less than one atmosphere test pressure and are usually performed where specifications of the test part demand this pressure differential.

Flow Testing uses a precision massflow 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 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.



With the Worker Integra leak tester you can create and store testprograms associated with your products.me instrument can be locked so the parameters cannot be accidentally changed.



When the leak test is run, you can select a real-time graphic display of the ongoing test that will, upon completion of the test, show the test result (accept/reject/decay).

Amorevisible results screen is also available to give the operator a vivid green (accept) or red (reject) results indicator while still providing the leak decay.

0		Save	Logs. Set	wo Mode	System_	Bunt G
a	Le	ak	Test	Port	🦂 Setup	1
Por	ts:	Volume:	Settle Mir	n: Settle Ma	x: Reject Mi	n: Reject Ma
Ð.	×	10	0	10	0	0.001
2	×	10	0	10	0	0.001
3	×	10	0	10	0	0.001
4	×	10	0	10	0	0.001

All test records are securely stored in the instrument's memory until the instrument is unlocked andthedataisdownloadedorerased.

Specifications:		Specifications contin	Specifications continued:		
Dimensions:	10"W x 10"D x 9"H 25.4W x 25.4D x 22.86H cm	Memory Capacity:	128 Mbytes (expandable internal option to 512 Mb)		
Power Supply Volt	age: 90-240V@ 50-60Hz	System CPU:	32bitfloatingpointprecision		
	(60Wat max)	LAN (Network):	RJ45-LAN (remote VNC,		
Storage and/or Ope	erating Environment		Telnet, Web-browser)		
	10-30°C (50-90°F) RH<80%, non-condensing	Peripherals (I/O)	USBHostPoL(1front, 1rear) HID inteGace: mouse, key		
Controls:	LED Start/Stop buttons Keylock, PowerButton		board, bar code reader Mass Storage:expoLdatato USB flashmemory		
Test Channels:	SingleChannelupto4 Channels		Printers: Output results and test parameters USBDevicePoL(ViLualCOM poL		
Pressure control :	Manualadjustableprecision regulatororE/Pautomatic regul;ator	1	control Serial RS-232 (DB9)		
Pressure Units:	Psig, InH2O, mBar, kPa, Inhg	Accessory I/O:	8 Opto Outputs, 8 Inputs, 3 Digital I/O Input for remote staL/stop Output		
Flow Units:	sccm,sLPM,scfm		pass and fail		
Display:	5.7" QVFA ColorTouch screen	Calibration:	NISTTraceable		
Test Modes:	Leak, Flow, Occlusion, and up to 3 linked tests	Test Time	0.1 to 1,000 sec (resolution 0.1 sec)		

Pressure Specifications

Pressure and Vacuum Models

Model	Vacuum	Pressure/Vacuum	15 psi	50 psi	100 psi	150psi
Range (Psig)	-13.50.5	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 Models only

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	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)	0.1	0.1	0.1	0.1	0.1

Models	Leak	Leak+Flow	E/P Regulator
Test Modes By Model	Leak Occlusion Link	Leak Flow Occlusion Link	* same as with automatic electronic regulator

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