

Pressure Decay Leak Tester

Instruments

- **Continuously displays rate of pressure decay.**
- **User selectable test pressure and display resolution for greater flexibility.**
- **Easy to operate.**
- **Digital pressure output for data logging.**
- **Bench top mounting for laboratory or field use.**



Description

The LRT2000 is a rugged, easy to use instrument designed to provide applied pressure control and rate of pressure decay leak testing. Simple controls enable the user to pressurise a component to be tested, then isolate it from the supply pressure and measure rate of pressure decay. A dual channel display indicates pressure and rate of pressure change simultaneously. Automated PASS or FAIL indication is available as an option.

Operation

The instrument should be connected to a 120 - 240 VAC, 50/60 Hz power supply and a clean dry gas source. A period of 60 minutes should be allowed after powering the instrument to allow it to stabilise and reach optimum accuracy.

Test pressure to be applied is set using the manual pressure regulator. A single rotary valve allows selection of FILL, TEST and VENT modes, neatly eliminating the possibility of pressurising a component with a vent valve open, or conversely, venting a component whilst it is still exposed to the pressure source. In the test mode the actual rate of pressure change is compared to the component specification to provide an unambiguous pass or fail decision.

Dual Channel Display

Fill and Isolation Valve



Mechanical	
Package	Bench top
Size (enclosure)	H 310mm, W 528mm, D 525mm
Mounting	Free Standing
Weight	17 Kg
Power Supply	
Line Voltage	240 VAC or 120 VAC
Line frequency	50 - 60 Hz
Consumption	Less than 50 VA
Protection	1.6A anti-surge fuse , 20 x 5mm
Operating Conditions	
Operating temperature range	+5°C to +50°C
Storage temperature range	-20°C to +70°C
Maximum relative humidity	95% at 50°C
Warm up time to full accuracy	30 minutes (assumes stabilised at ambient)
Measurement and control	
Supply pressure	0 - 34.5 bar gauge (0 - 500 psi gauge)
Pressure measurement accuracy	± 0.25% of full scale
Pressure display resolution	Configurable
Rate display resolution	1 digit greater than displayed pressure
Dial gauge	0 - 40 bar / 550 psig, 60mm