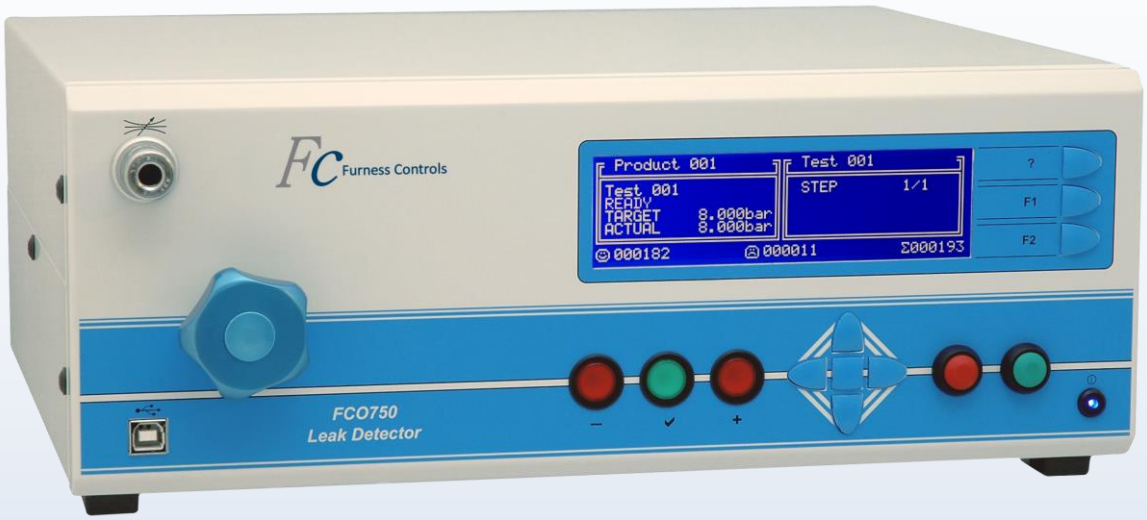
Pressure Decay
Leak Detector

InstruMetrics ENGINEERING

FCO750



- Graphical display of leak and pressure
- 300 Product settings with up to 16 sequence steps and a variety of test types such as leak, blockage, ramp, dump and input/output.
- Pressure ranges from vacuum to 30bar.
- Automatic pressure regulator and dual regulators available
- Robust steel bench-top case with optional rack mounting
- Communications via RS232, RS485, USB or Ethernet
- Barcode scanner support
- Built-in Data logger
- Programmable electrical and pneumatic I/O

The FCO750 is an advanced multi-function pressure decay leak detector that is suited to applications requiring multiple test configurations or flexible control of associated tooling. The FCO750 can be easily interfaced to PLCs or PCs where integration is required, or in many cases the built-in programmable I/O functions can remove the need for a PLC. The communications facility may be used for configuration, control and data logging.

Furness Controls
Pressure|Flow|Leak Detection

Leak Measurement

Leak ranges	± 200.0 Pa ± 2.000 kPa ± 20.00 kPa
Accuracy @ 20°C	200 Pa and 2 kPa models: 10% to 100% range: < ± (1% reading + 1 digit) 0 to 10% range: < ± (0.1% range + 1 digit) 20 kPa model: < ± (1% range + 1 digit)
Resolution	4 digit display.
Temperature Coefficients	Zero: Automatic Span: < ± 0.15% per °C
Long Term Drift (span)	< ± 1% per year

Pressure Measurement

Pressure Ranges	± 99.99 mbar ± 200.0 mbar ± 999.9 mbar	-1 bar to +4.000 bar -1 bar to +8.000 bar -1 bar to +9.999 bar	-1 bar to +14.00 bar -1 bar to + 30.00 bar
Accuracy @ 20°C	10% to 100% range: < ± (1% reading + 1 digit) 0 to 10% range: < ± (0.1% range + 1 digit)		
Resolution	4 digit display.		
Temperature Coefficients	Zero: < ± 0.05% per °C Span: < ± 0.1% per °C		
Long Term Drift (span)	< ± 1% per year		

Electrical

Supply Voltage	24 VDC ± 10% < 500 mA
Electrical connections	Power: 2 way detachable screw terminal Outputs: 20 way detachable screw terminal Inputs: 16 way detachable screw terminal RS232: 9 pin D plug RS485: 5 pin detachable screw terminal LAN: RJ45 connector, 10base-T/100base-TX Ethernet USB: Type B USB connector
Control Inputs	Up to 24 Opto-isolated, active high or active low. 5 VDC to 24 VDC into 10 KΩ
Control Outputs	Up to 32 Active High transistor output (PNP). 12 VDC to 45 VDC, 120 mA (per channel)

Pneumatic

Media Compatibility	Clean dry air or non corrosive gas
Air Supply Pressure	Maximum 10 bar gauge, Minimum 5 bar gauge
Regulator Supply Pressure	Maximum 16 bar gauge or 35 bar for 30 bar option
Pneumatic Connections	Air supply – 6 mm push-in tube connector Regulator supply and output – 8 mm push-in tube connector Test/Reference 1/8" BSPF Up to 5 programmable pneumatic outputs - 4 mm push-in tube connectors
Leak Tightness	< 0.2cc/Hour

Construction

Enclosure	Steel construction enclosure with paint finish. Suitable for 19" 3U rack mounting.
Dimensions – Rack Case	482 x 133 x 296 mm (W x H x D)
Dimensions – Bench Case	366 x 147 x 296 mm (W x H x D)
Weight	8.5 kg ± 0.5 kg

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Furness Controls has a UKAS accredited laboratory which offers pressure calibration from 0 to 40 kPa and flow calibration from 0.1 ml/min to 2000 litres/min

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Beeching Road • Bexhill On Sea
East Sussex • UK • TN39 3LG
Tel: +44 1424 819980
Email: sales@furness-controls.com
Web: www.furness-controls.com

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