Pressure Decay

Leak Detector



- Intuitive touch-screen interface
- Customised graphical Screen image prompts for operators
- 300 Product settings with up to 16 sequence steps and a variety of test types such as leak, blockage, ramp, dump and input/output
- Automatic pressure regulator available
- Communications via RS232, RS485, USB, Ethernet, PROFIBUS, PROFINET, EtherNet/IP
- Barcode scanner support
- Built-in Data Logger with USB memory stick connection
- Programmable electrical and pneumatic I/O

The FCO780 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 FCO780 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.

Leak Measurement

Leak ranges	±200.0Pa ±2.000kPa ±20.00kPa	
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: Automatic Span: <±0.15% per °C	
Long Term Drift (span)	< ±1% per year	

Pressure Measurement

Pressure Ranges	± 99.99mbar ± 200.0mbar ± 999.9mbar	-1bar to +4.000bar -1bar to +8.000bar -1bar to +9.999bar	-1bar to +14.00bar -1bar to +30.00bar	
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	24VDC ±10% <1A	
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	Power: 2 way detachable screw terminal	
	Outputs: 20 way detachable screw terminal	
	Inputs: 16 way detachable screw terminal	
Electrical connections	RS232: 9 pin D plug	
	RS485: 5 pin detachable screw terminal	
	LAN: RJ45 connector, 10base-T/100base-TX Ethernet	
	USB: 1 x USB Type A connector, 1 x USB Type B connector	
Control Inputs	12 Opto-isolated, active high or active low. 5VDC to 24VDC into 10K Ω	
Control Outputs	16 Active High transistor output (PNP). 12VDC to 45VDC, 120mA (per channel)	

Pneumatic

Media Compatibility	Clean dry air or non-corrosive gas	
Air Supply Pressure	Maximum 10bar gauge, Minimum 5bar gauge	
Regulator Supply Pressure	Maximum 16bar gauge or 35bar for 30bar option	
Pneumatic Connections	Air supply: 6mm push-in tube connector Regulator supply and output: 8mm push-in tube connector Test/Reference: 1/8" BSPF Up to 2 programmable pneumatic outputs: 4mm 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	267 x 133 x 296 mm (W x H x D)	
Dimensions – Bench Case	232 x 154 x 296 mm (W x H x D)	
Weight	5 kg ± 0.5 kg	

All information in this document is provisional and is subject to change without notice.

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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





