

Pressure Decay Leak Detector



- Clear display of leak and pressure
- Up to 50 test settings
- Pressure ranges from vacuum to 30bar
- 0.1Pa or 0.01cc/min leak resolution
- Front panel calibration port
- Front panel or remote start/stop
- Compact robust steel bench-top case
- Communications via RS232 or RS485

The FCO730 has much to offer as an entry level pressure decay Leak Detector. It is ideal for applications where multiple test-heads are needed, such as on a rotary table. It can be easily interfaced to PLCs or PCs where integration is required, or it may be used as a standalone instrument. The communications facility may be used for configuration, control and data logging.

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 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: detachable screw terminal Inputs: detachable screw terminal RS232: 9 pin D plug RS485: 5 pin detachable screw terminal
Control Inputs	Up to 12 Opto-isolated, active high or active low. 5 VDC to 24 VDC into 10 KΩ
Control Outputs	Up to 16 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 Pneumatic pilot outputs - 4 mm push-in tube connectors
Leak Tightness	< 0.2cc/Hour
Media Compatibility	Clean dry air or non corrosive gas
Air Supply Pressure	Maximum 10 bar gauge, Minimum 5 bar gauge

Construction

Enclosure	Steel construction enclosure with paint finish. Suitable for 19" 3U rack mounting.
Dimensions – Rack Case	296 mm x 267 mm x 133 mm
Dimensions – Bench Case	296 mm x 232 mm x 147 mm
Weight	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

