

# Pressure Decay Leak detector

**InstruMetrics**  
ENGINEERING

FC0730



- 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 FC0730 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    -1 bar to +4.000 bar    -1 bar to +14.00 bar ± 200 mbar    -1 bar to +8.000 bar    -1 bar to +30.00 bar ± 999.9 mbar    -1 bar to +9.999 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	267 x 133 x 296 mm (W x H x D)
Dimensions – Bench Case	232 x 147 x 296 mm (W x H x D)
Weight	5 kg

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