

Pressure Decay Leak Detector



FCO750 Leak Detector

General Description

The **FCO750** is a pressure decay leak detector that is suited to applications requiring either multiple test configurations or flexible control of associated tooling.

The **FCO750** can store parameters for 300 products with each product consisting of up to eight tests in a sequence. The tests can be any combination of leak tests, blockage tests, ramp tests or dump tests. All test parameters are programmable with a wide selection of engineering units.

Features

Robust steel benchtop case with optional 19" x 3U rack mounting kit

Large Graphics Display 240 X 64 Pixels with Blue Backlight

Choice of Run Time screens

Test pressure ranges from Vacuum through to 30bar

- 0.1pa or 0.01 cc/min Leak resolution
- 300 product/test settings
- Dual regulator capability
- Automatic regulation of vacuum and pressure
- Communications via RS232, RS485, USB or LAN
- Maintenance early warning system with Email alert
- Multiple test types (Leak, Blockage, Ramp, Dump)
- 16 Programmable BCD outputs expandable to 32 (this cuts out the inputs)
- 12 Programmable BCD inputs expandable to 24
- Up to 5 programmable pneumatic outputs
- Datalogger storage of the last 200 test results
- Selflearning function on setup

FC0750 Leak Detector

Front Panel

- Graphical liquid crystal display with blue backlight
- 5 button tactile keypad for instrument set-up
- Three additional function buttons
- Pushbuttons for test start and stop
- Fail-, pass and fail+ LEDs
- Front USB port
- Quick connect calibration port
- Optional manual or automatic pressure control
- Two regulator capability

Rear Panel

- Detachable screw terminals for easy wiring or I/O power supply connections
- Single 9 pin D connector for RS232 communications
- Optional RS485 port
- Optional LAN (Ethernet) port
- Test and reference ports
- Five optional programmable pneumatic outputs
- Air supply port
- Regulator supply port

Pressure Ranges and Units

STANDARD RESOLUTION
±99.9 mb
±200 mb
±999 mb
-1.00 to +4.00 bar
-1.00 to +8.00 bar
-1.0 to +14.0 bar
-1.0 to +30.0 bar

Leak Ranges and Units

STANDARD RESOLUTION
200 Pa
2.00 kPa



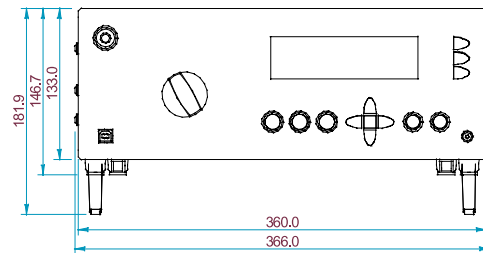
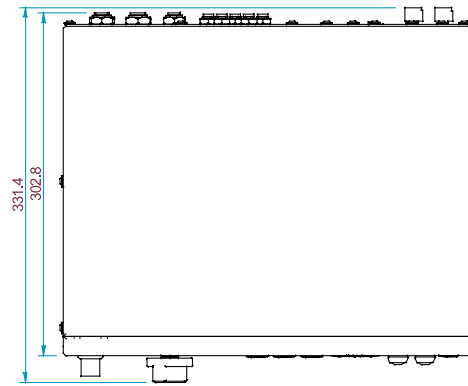
Furness Controls has a UKAS certified laboratory which offers pressure calibration from 0 to 40kPa and Flow calibration from 0.1 ml/min to 2000 litres/min

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Performance Specification

LEAK DIFFERENTIAL PRESSURE MEASUREMENT	
Accuracy @ 20 °C	< ±1% R ± 1 digit
Zero Adjustment	Automatic
PRESSURE MEASUREMENT	
Accuracy @ 20°C	< ± 1% FSD ± 1 digit
Zero Adjustment	Semi-automatic
ELECTRICAL	
Supply Voltage	24VDC ± 10%
Supply Power	<500mA
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: 10baseT Ethernet connector USB: Type B USB connector
Output Type	Active high transistor output (pnp)
Output Rating	5VDC to 35VDC, 100mA (per channel)
Input Type	Opto-isolated, active high or active low
Input Rating	5VDC to 24VDC into 10KW
PNEUMATIC	
Media Compatibility	Clean, dry air or non hazardous 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	Supply 6mm push in and 8mm push in, Pneumatic pilots 4mm push in, test/reference 1/8" BSPF
Leak Tightness	<0.2cc/hour
PHYSICAL	
Overall Dimensions- Rack Case	294mm x 360mm x 133mm
Overall Dimensions- Bench Case	294mm x 360mm x 145mm
Net Weight	8.5kg ± 0.5kg
Temperature Limits	Storage: -20 to 70 °C. Working: 0 to 40 °C