Continuous Flow
Leak Detector

FCO794

- Intuitive touch-screen interface
- Customised graphical Screen image prompts for operators
- Leak measurement ranges from 60 cc/hr to 2000 cc/hr
- 300 Product settings with up to 16 sequence steps
- Automatic pressure regulator and dual 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 FCO794 is an advanced continuous flow leak detector suitable for production line testing of small and large components. The FCO794 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.

FC0794

Leak Measurement

Leak ranges	0 to 60.00 cc/h (1.000 cc/min) 0 to 200.0 cc/h (3.333 cc/min) 0 to 600.0 cc/h (10.00 cc/min) 0 to 2000 cc/h (33.33 cc/min)
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	5 to 99.99 mbar 20 to 400.0 mbar 50 to 999.9 mbar	0.2 to 2.000 bar 1 to 4.000 bar 3 to 8.000 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	24VDC ±10% < 1A
Electrical connections	Power: 2 way detachable screw terminal Outputs: 20 way detachable terminal Inputs: 16 way detachable terminal 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	Up to 24 Opto-isolated, active high or active low. 5VDC to 24VDC into 10KΩ
Control Outputs	Up to 32 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
Pneumatic Connections	Air supply: 6mm push-in tube connector Regulator supply and output: 8mm push-in tube connector Test/Reference: 1/8" BSPF with adaptation for 6mm O/D push-on tubing. Up to 5 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	482 x 133 x 296 mm (W x H x D)
Dimensions – Bench Case	366 x 154 x 296 mm (W x H x D)
Weight	9 kg ± 0.5 kg

All information is subject to change without notice.

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

Furness Controls
PRESSURE | FLOW | LEAK DETECTION

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