

Continuous Flow Leak Detector

FC0794



- 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 FC0794 is an advanced continuous flow leak detector suitable for production line testing of small and large components. The FC0794 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

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|--------------------------|---|
| 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: $< \pm$ (1% reading + 1 digit) 0 to 10% range: $< \pm$ (0.1% range + 1 digit) |
| Resolution | 4 digit display. |
| Temperature Coefficients | Zero: Automatic Span: $< \pm$ 0.15% per °C |
| Long Term Drift (span) | $< \pm$ 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: $< \pm$ (1% reading + 1 digit) 0 to 10% range: $< \pm$ (0.1% range + 1 digit) | |
| Resolution | 4 digit display. | |
| Temperature Coefficients | Zero: $< \pm$ 0.05% per °C Span: $< \pm$ 0.1% per °C | |
| Long Term Drift (span) | $< \pm$ 1% per year | |

Electrical

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|------------------------|--|
| Supply Voltage | 24VDC \pm 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 10K Ω |
| 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 | < 0.2 cc/Hour |

Construction

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|-------------------------|--|
| 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 \pm 0.5 kg |

All information 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

