

Microcalibrator Digital Flowmeter

InstruMetrics
ENGINEERING

FCO210



- Battery operated
- Models from 2cc/min to 2000cc/min
- Fine adjustment needle valve & isolation valve
- Temperature compensated
- Optional waterproof carry case

The FCO210 Digital Microcalibrator is a traceable flow rate meter designed primarily to provide calibration for production line leak detectors.

The unit comprises a mini flow meter using a laminar flow element and a low range differential pressure transducer to resolve leak rate readings in cc/min, cc/hr or mm³/s.

The leak rates are adjustable using the built-in fine needle valve and the set leak rate is read on an LCD display.

To aid the calibration accuracy under various production conditions, a built-in temperature sensor corrects the flow readings for variable ambient conditions.

Flow Measurement

Model	1	2	3	4	5
Flow ranges	±19.99 cc/m	±1999 cc/h	±199.9 cc/m	1999 cc/m (Old style)	±199.9 cc/h
Model	6	7	8		
Flow ranges	±1.999 cc/min	±199.9 mm ³ /s	±1999 mm ³ /s		
Accuracy @ 20°C	10% to 100% range: < ± (1% reading + 1 digit) 0 to 10% range: < ± (0.1% range + 1 digit)				
Resolution	1:1999				
Temperature Coefficients	Zero: Semi-automatic Zero facility Span: < 0.1% per °C				
Display	3 ½ digit LCD				
Long Term Drift (span)	< 1% per year				

Electrical

Power Requirements	9 volt battery (PP3)
Battery Life	Up to 250 hours
Operating Temperature	0 to 50°C

Pneumatic

Media Compatibility	Clean dry air or non corrosive gas. Viscosity corrected for air only.
Overload	20 x Range
Pneumatic Connection	1/8" BSP female input M5 vent port (option for Quick Connector)
Static Pressure	Vacuum to 14 bar gauge
Effective Volume	0.8cc (input port up to control valve)

Construction

Enclosure	ABS Case
Dimensions	222 x 205 x 80mm (W x H x D)
Media Compatibility	Clean dry non-corrosive gas
Materials in contact with media	Brass, Copper, Beryllium Copper, PVC, Silicone, Nitrile, Nickel.
Weight	1.2kg

All information in this document is provisional and is subject to change without notice.



Optional waterproof carry case

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