

Microcalibrator

Digital Flowmeter

FCO220



- Models: 3 cc/min, 6 cc/min, 30 cc/min & 300 cc/min
- Fine adjustment needle valve & isolation valve
- Volumetric and mass flow measurement
- USB connection to Leak detector

The FCO220 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.

Built-in atmospheric pressure and temperature sensors corrects the flow readings for variable ambient conditions providing volumetric flow, standard flow and mass flow.

Flow Measurement

Flow ranges	±3 cc/min	±6 cc/min	±30 cc/min	±300 cc/min
Flow Units	±3.000 cc/min	±6.000 cc/min	±30.00 cc/min	±300.0 cc/min
	±180.0 cc/h	±360.0 cc/h	±1800 cc/h	±18000 cc/h
	±50.00 mm ³ /s	±100.0 mm ³ /s	±500.0 mm ³ /s	±5000 mm ³ /s
	±3.000 ml/min	±6.000 ml/min	±30.00 ml/min	±300.0 ml/min
	±180.0 ml/h	±360.0 ml/h	±1800 ml/h	±18000 ml/h
Accuracy @ 20°C	<1% R + 0.003 cc/min	<1% R + 0.006 cc/min	<1% R + 0.03 cc/min	<1% R + 0.3 cc/min
Temperature Coefficients	Zero: Semi-automatic Zero facility Span: < 0.1% per °C			
Display	8 character LCD			
Long Term Drift (span)	< 1% per year			

Electrical

Power Requirements	9 volt battery (PP3/6LR61/MN1604)
Battery Life	Up to 100 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 (option for Quick Connector)
Vent port	M5 (DO NOT RESTRICT)
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 79mm (W x H x D)
Media Compatibility	Clean dry non-corrosive gas
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