

Pressure Calibrator

FC0540



- Portable unit suitable for laboratory or on-site calibration
- Simultaneous display of applied pressure and EUT value (via USB)
- Automatic differential pressure generator
- Communications via RS232 or USB
- Battery powered for portable calibration

The FC0540 fulfils the requirements for low differential pressure calibration of transmitters, transducers and pressure switches.

Differential Pressure Measurement

Instrument	2kPa	20kPa		
Range	±2000.0Pa / ±999.99Pa	±20000Pa / ±9999.9Pa		
Accuracy @ 20°C (including linearity and hysteresis)	< 0.1% R + 0.03 Pa	< 0.1% R + 0.3 Pa		
Control Stability (if internal pump fitted)	<0.003% FS (with both ports sealed)			
Resolution	1:200000 (auto-range 5-digit display)			
Temperature Coefficients	Zero: < 0.02 % fsd per °C (eliminated by Automatic zero function) Span: < 0.01 % per °C			

Electrical

Supply Voltage	12 VDC ± 10% 2A (Universal mains power supply included) 2.1mm power socket
Communication Interfaces	RS232: 9-pin D plug USB: Type A connector for connection to EUT or memory stick USB: Type B connector for connection to PC
Interface	Digital I/O: 4 inputs/outputs (5V logic)

General

Enclosure	Aluminium enclosure with tilt feet
Display	Blue backlit graphic display.
Datalogger capacity	Storage of approximately 35,000 single display readings.
Dimensions	W 250mm x H 105mm x D 265mm (without handle)
Operating temperature	+5°C to +45°C
Storage Temperature	-10°C to +50°C
Battery life	> 8 hours of normal use
Weight	<4.5 kg
Long Term Drift (span)	< 0.25% reading per year
Overload	20 times fsd without damage
Media Compatibility	Clean dry air or non-corrosive gas
Static pressure:	Without internal pump: -1 bar to + 4 bar. With internal pump: -500mbar to + 500 mbar.
Pneumatic Connections	Test Ports: Push-on tube fittings for 6mm o/d, 4mm i/d flexible tube.
Options:	Basic unit (Without pressure generator or battery) Automatic pressure generator Internal battery pack Soft carry case Hard carry case

All information in this document is provisional and 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



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