

## Pressure Calibrator

### ➤ 3130 Portable Pressure Calibrator

The Fluke 3130 Portable Pneumatic Pressure Calibrator is ideal for calibrating pressure transmitters, transducers, gauges and similar devices. The Fluke 3130 contains everything you need to generate, control and measure pressure, as well as read the output of the device under test (DUT).

**1. 3130 Portable Pressure Calibrator**



➤ **Key Features**

- Measure and generate pressures from vacuum to 2 MPa (300 psi, 20 bar)
- Internal pump can generate vacuum to -80 kPa (-12 psi, -0.8 bar) or pressure to 2 MPa (300 psi, 20 bar)
- Supply pressure connection allowing the use of external gas supply up to 2 MPa (300 psi, 20 bar)
- Includes variable volume for fine adjustment of pressures
- Pressure measurement accuracy of  $\pm (0.025 \% \text{ reading} + 0.01 \% \text{ FS})$
- Electrical measurement and 24 volt supply for close looped calibrations
- Measure or generate 4 to 20 mA
- Measure 0 to 30 V dc
- Powered by internal, high capacity, NiMH battery or universal ac mains adapter
- Compatible with Fluke 700P and 750P Pressure Modules

<b>Environmental</b>	
Operating temperature	-10 °C to +50 °C
Storage temperature	-20 °C to +60 °C
Power requirements	12 V dc (Universal ac adapter/charger supplied)
Battery	Internal 3800 mAh advanced NiMH pack
<b>Operating time</b>	
On full charge	Approx 50 hours (Measure only or external air; no pump)
Using internal pump	Approx 100 calibration cycles to 300 psi

<b>Physical</b>	
Dimensions	15.25 in L x 12 in W x 7 in D
Weight	~7 kg (15 lb)
EMI/RFI conformance	EN61326:2006 Annex A
Connectors/ports	1/8 in NPT (External supply port and test port)
Included accessories	Manual, NIST-traceable certificate, test leads, universal ac adapter/charger
<b>Ranges</b>	
Pressure (internal pump)	-80 kPa to 2 MPa (-12 to 300 psi, -0.8 to 20 bar)
Pressure (external air)	0 to 2 MPa (0 to 300 psi, 0 to 20 bar)
mA	0 to 24.000 mA
Volts	0 to 30.000 V dc
Engineering units	psi, bar, mbar, kPa, MPa, kgf/cm <sup>2</sup> , mmH <sub>2</sub> O @ 4 °C, mmH <sub>2</sub> O @ 20 °C, cmH <sub>2</sub> O @ 4 °C, cmH <sub>2</sub> O @ 20 °C, inH <sub>2</sub> O @ 4 °C, inH <sub>2</sub> O @ 20 °C, inH <sub>2</sub> O @ 60 °F, mmHg @ 0 °C, inHg @ 0 °C
<b>Instrumental measurement uncertainty</b>	
Pressure	±(0.025 % of reading + 0.01 % FS)
mA	±(0.015 % of reading + 0.002 mA)
Volts	±(0.015 % of reading + 0.002 V)
<b>Temperature effect (all functions)</b>	
No effect on accuracy on all functions from 15 °C to 35 °C	
Add ± 0.002 % F.S./°C for temps outside of 15 °C to 35 °C	