

DPC-30

Pneumatic Calibration System

*Small, lightweight,
and accurate —
take your test bench
to the field!*



Features

- ▲ Works with compressed plant air
- ▲ 0.001 PSI resolution, $\pm 0.035\%$ accuracy
- ▲ Dual digital display — PSI & mA or voltage
- ▲ Gage, differential, and vacuum modes
- ▲ Selectable engineering units
- ▲ Pressure switch test
- ▲ Rugged case to withstand factory floor environment

The Martel Electronics DPC-30 is a highly accurate, digital calibrator for pneumatic field instrumentation, including valve actuators, P/I transmitters, controllers, gauges, switches, and recorders. It is especially suitable for checking 3 to 15 PSI systems. Its dual precision regulators enable output of set and variable pressures to control devices, while the switching manifold allows fast selection among the pressure ports. The unit simultaneously displays pressure and either mA or VDC, and has a built-in loop power supply. Accuracy is $\pm 0.035\%$ of full scale for all ranges.

Specifications

Pressure	
Ranges	-5 to 30.000 PSI
Accuracy	$\pm 0.035\%$ F.S. ± 1 LSD; $23\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$
Engineering Units	PSI, Bar, mBar, kg/cm ² , mm Hg, in Hg, kPa, in H ₂ O @ $4\text{ }^\circ\text{C}$, in H ₂ O @ $20\text{ }^\circ\text{C}$, in H ₂ O @ $60\text{ }^\circ\text{F}$, cm H ₂ O @ $4\text{ }^\circ\text{C}$, cm H ₂ O @ $20\text{ }^\circ\text{C}$, mm H ₂ O @ $4\text{ }^\circ\text{C}$
Modes	gage, differential, vacuum (vacuum to -5 PSI)
Electrical	
Ranges	0 to 52.000 mA 0 to 20.000 VDC
Accuracy	4-20 mA/10-50 mA $\pm 0.025\%$ F.S.; $23\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$
Voltage	$\pm 0.025\%$ F.S.; $23\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$
Current Overload Protection	1/8 A fuse
Temperature Stability	$\pm 0.01\%/^\circ\text{C}$ for both pressure and electrical for temperatures outside of $23\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$
Loop Power	24 VDC $\pm 10\%$; supply built-in
Environmental	
Operating temperature	32 to 122 $^\circ\text{F}$ / 0 to 50 $^\circ\text{C}$
Storage temperature	-20 to 60 $^\circ\text{C}$
Media Compatibility	
All pressure ranges	clean, non-corrosive gasses
Connections	
Pressure	1/8" FNPT
Current	banana jacks on 3/4" centers
Pressure Switch Test	dry, (unpowered) contacts only, nominal 24 mA @ 24 VDC excitation current supplied to contacts
Display	16 x 2 line dot matrix LCD dual pressure and mA or V readout
Power Requirements	internal Ni-Cd battery or AC adapter that simultaneously charges the battery and powers the unit
Dimensions	13" x 12" x 6" (330.2 x 304.8 x 152.4 mm) HWD
Weight	12 lbs. (5.45 Kg)
Accessories Included	Test leads, AC adapter/charger, hard shell carrying case, instruction manual, and NIST Certificate

Ordering Information

Description	Model
Pneumatic Calibration System	DPC-30



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