

GE Sensing

Features

- Pressure ranges up to 300 psi (20 bar)
- Control stability 0.01% full scale (FS)
- Precision 0.1% FS
- Fast response, simple to operate
- Front panel or remote control
- Cost-effective solution

The DPI 530 is an easy to use, fast response digital closed loop pressure controller. It provides an economical solution for applications requiring a stable pressure source, such as calibration, leak testing and general pneumatic regulation. It is equally suitable for benchtop or rack mounted use.

DPI 530

Druck Pneumatic Pressure Controller/Regulator

DPI 530 is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.



DPI 530 Specifications

General

Operating Pressure Ranges

Any FS can be specified between the ranges listed below:

- 0 to 1 psig (0 to 70 mbar), 0 to 300 psig (0 to 20 bar), 0 to 5 psia (0 to 350 mbar) to 0 to 300 psia (0 to 21 bar)
- Optional -14.5 psig (-14 mbar) capability available

Maximum Safe Working Pressure

435 psi (30 bar)

Pressure Media

Source supply to be dry, non-corrosive gas at a value between 10% to 40% above FS pressure range

Readout

±19999 LCD, updated two times per second

Pressure Units

A choice of six scale units is available via rear panel switches: psi, bar, inHg, kg/cm², kPa and 0-100% FS

Precision

0.1% FS or compound range. Precision includes non-linearity, hysteresis and repeatability.

Temperature Effects

Maximum ±0.5% FS over the operating range of 32°F to 122°F (0°C to 50°C)

Controller Stability and Response

Better than 0.01% FS random variation around the control value setpoint. For dead end system, typical time to achieve set point is five seconds.

Remote Control

Ability to input 0 to 10 VDC or 0 to 20 mA, representing zero to FS pressure. Connections available via rear screw terminals.

Power Supply

Factory preset to accept either 88 to 130 V or 205 to 260 V (45 to 65 Hz 15 VA). 6 ft (2 m) length integral cable supplied.

Temperature Range

- Operating: 32°F to 122°F (0°C to 50°C)
- Storage: -4°F to 158°F (-20°C to 70°C)

Conformity

EN50081-1, EN50082-1 and IEC 1010

Physical

- Weight: 2 kg (4.4 lb) nominal. Front panel to IEC standard 297-3

Dimension (h x w x d)

5.1 in x 4.72 in x 7.8 in (130 mm x 120 mm x 198 mm)

Pneumatic Connections

A choice of front or rear outlet. Source inlet, vent outlet and reference ports all located at rear, G 1/8 BSP female or 1/8 NPT (supplied as adaptors).

Options

(A) -14.5 psig (-1 bar) negative (vacuum) calibration

Supplied Standard

The DPI 530 is supplied complete with user handbook and calibration certificate traceable to international standards.

Calibration Standards

Instruments manufactured by GE are calibrated against precision pressure calibration equipment which is traceable to international standards.

Ordering Information

Please state the following:

- (1) DPI 530
- (2) Pressure range(s), gauge or absolute
- (3) Power supply voltage required
- (4) Option (A), if required



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