

GE Sensing

Features

- First of new generation of pressure controller/indicators, designed on a modular platform
- Ease of operation
- Virtually no downtime and instrument outage because of modularity
- Improved precision
- Improved long term stability
- Control stability to 0.003% FS
- High resolution colour display
- Touch screen operation
- Less maintenance – longer intervals between calibration
- High precision pressure generation
- Up to 210 bar (3000 psi/21 MPa) gauge and absolute
- Lower cost of ownership
- Ethernet and CANBUS options
- Very low drift
- RS232 and IEEE connectivity as standard
- Designed both for 482 mm (19 in) rack systems and for bench use
- Backward compatibility with existing GE products (Druck DPI520)
- Compatibility with Intecal and Third Party software
- Utilises GE's unique piezo-resistive sensor technology
- Negative calibration included as standard
- Complementary supporting services available

The PACE5000

Modular Pressure Controller/Indicator

First in a new generation of modular, high precision Druck pressure controllers/indicators, designed for ATE and test bench applications



GE imagination at work

Specifications

Pressure Measurement

Standard Pressure Ranges	25, 70, 200, 350 and 700 mbar gauge, 1, 2, 3.5, 7, 10, 20, 35, 70, 100, 135 and 210 bar gauge 0.35, 1, 3, 5, 10, 15, 30, 50, 100, 150, 300, 500, 1000, 1500, 2000, 3000 psi 2.5, 7, 20, 35, 70, 100, 200, 350, 700 kPa, 1, 2, 3.5, 7, 10, 13.5, 21 MPa All gauge versions available with negative calibration as standard. For absolute pressure ranges select a gauge range and add Barometric Reference (provides gauge + atmosphere absolute range). Available Sept 08.
Over Range Indication	10% above full scale pressure range.
Pressure Media	Dry, oil free, non-corrosive gas maintained at a value of 10% above the maximum required outlet pressure. Dry air or Nitrogen recommended.

Display

Panel	¼ VGA wide format Graphics LCD, colour touch screen.
Update Rate	2 times per second.
Readout	± 9999999
Pressure Units	24 scale units plus four user defined: Pa, hPa, kPa, MPa, kg/cm ² , kg/m ² , mmHg, cmHg, mHg, inHg, mmH ₂ O, cmH ₂ O, inH ₂ O@4C, H ₂ O@20C, H ₂ O@60F, feetH ₂ O (@ 4C, 20C, 60F), psi, lb/ft ² , torr, atm, mbar & bar.

Performance

Standard Precision	0.02% Rdg + 0.02% FS includes linearity, hysteresis, repeatability and temperature effects for gauge pressures and assumes steady state and regular zeroing. For absolute pressures, add 0.1 mbar or 0.0015 psi.
Enhanced Precision	0.01% Rdg + 0.01% FS includes linearity, hysteresis, repeatability and temperature effects for gauge pressures and assumes steady state and regular zeroing. For absolute pressures, add 0.1 mbar or 0.0015 psi.
Negative Gauge Precision	Maximum error at any given pressure value is equal to maximum error at the equivalent positive pressure value.
Long Term Stability	To 0.01% Reading per annum.
Barometric Reference Precision	Precision for the optional barometric reference 0.1 mbar or 0.0015 psi. Includes non-linearity, hysteresis, repeatability and temperature effects between 15°C (59°F) and 45°C (113°F). Long term measurement stability 0.1 mbar or 0.0015 psi per annum.
Controller Stability	0.005% FS (standard precision) or 0.003% FS (enhanced precision).
Gas Consumption	All supply gas is delivered to the system. No gas is used in measure mode, or when the instrument is turned off.

Electrical

Power Supply	90 V AC to 130 V AC @ 47 to 63 Hz & 180 V AC to 260 V AC @ 47 to 63 Hz.
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Communications

Communication	RS232, IEEE-488, DPI520 emulation. Future expandability.
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Environmental

Temperature	Operating	10°C to 50°C (50°F to 122°F)
	Calibrated	15°C to 45°C (59°F tot 113°F)
	Storage	-20°C to 70°C (-4°F to 158°F)
Sealing	IP30	
Humidity	5% RH to 95% RH non-condensing.	
Vibration	Compliant with Def. Stan. 66-31 8.4 Cat 3 and MIL-T-28800E Cat 2.	
Shock	Mechanical shock conforms to EN61010.	
Conformity	EN61010, EN61326, PED, ROHS & WEEE CE marked.	

Physical

Weight	10.1 kg or 22 lbs
Dimensions	440 mm x 2U x 320 mm (17.3 in x 2U x 12.6 in)
Pneumatic Connections	G ¼ female Optional: G ¼ male to ¼ NPT female adaptors, G ¼ male to ¼ NPT female adaptors, G ¼ male to G ¼ female.



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