## **Features**

- High accuracy 0.025% full scale (FS)
- Generates pneumatic pressures to 3000 psi (200 bar)
- Dual channel readout, pressure and electrical
- Self contained rechargeable gas cylinder
- RS232 interface and documenting versions
- Coarse/fine adjust selection

## Fast and Convenient Solution for Pressure Calibration

GE Sensing is a world leader in portable pressure calibrator technology and function. The Druck DPI 320/325 Series of high pressure pneumatic calibrators are the latest additions to a comprehensive range of compact and rugged instruments. This range of portable calibrators is designed to make testing and calibration of high pressure instruments and systems on quick and simple. Two versions are available: the DPI 320, which is the standard model, and the DPI 320, which has full documenting capability. These self-contained portable calibrators provide unparallely accuracy and control performance. A built-in gas sylinder provides source pressures up to 3000 (psi 1000 bar). A precision pressure regulator and fine you are adjuster ensure optimum control and a digitally characterized sensor measures are some to better than 0.025% of FS.

## DPI 320/325 Series

Druck Portoble Pigh Pressure Pneumatic Calibrators

DPI 320/325 Series is a Druck product. Druck has joined other GE high-technology sensing businesses under a new name—GE Industrial, Sensing.





## Field and Workshop Operation

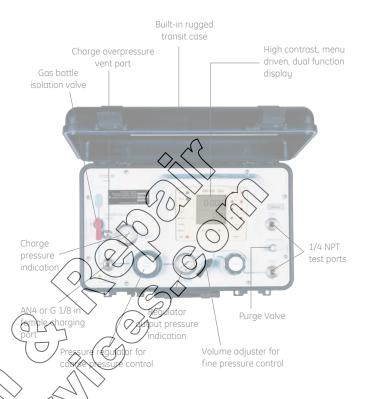
The DPI 320/325 Series pressure calibrators are designed for use in the workshop, in the plant or out in the field. The large capacity gas cylinder ensures maximum productivity between refills. In addition, the calibrators can be operated directly from an external pressure source connected to the charging port.

## **Dual Channel Display**

The DPI 320/325 Series are dual channel instruments, able to display both the input and output values simultaneously. The calibrators are capable of providing current and voltage excitation to the unit under test (UUT), and can measure DC voltage, DC current and ambient temperature. Electrical terminations are made by industry standard 4 mm sockets, and the large backlit display provides a clear readout of the process parameters.

## Application Specific Task Menu

A dedicated task key provides instant access to the task menu, permitting the calibrator to be configured for specific applications. For example, the Pritor configure the calibrator to source pressure and most pressure currents 24 VDC. Loop power is also available to allow complete pressure transmitter calibration. Further than the pressure switch task captures the open and object switch values and calculates switch hysteresis. The contact resistance of the switch under test can also be movimed.



## Reduce Process Downtime

The DPI 325 version enables calibration criteria to be easily entered via the keypad, allowing fast diagnosis of field instruments and automatic reporting of errors with a Pass or Fail status. When used in conjunction with Intecal calibration management software, it will be possible to download test procedures from a PC to the DPI 325. The calibrator will prompt the technician during the calibration routine, and the results will be recorded electronically, reducing downtime and eliminating human errors.

# DPI 320/325 Specifications

## Pressure

The DPI 320 and 325 include a built-in pressure sensor and matched pressure regulator. The pressure range should be selected from the table below.

Pressure Range	Accuracy* (% FS)	Maximum Overpressure	Type**
500 psi (34 bar)	0.025%	1000 psi (70 bar)	G or A
1000 psi (70 bar)	0.025%	2000 psi (140 bar)	G or A
1500 psi (100 bar)	0.025%	3000 psi (200 bar)	G or A
2000 psi (135 bar)	0.025%	4000 psi (220 bar)	G or A
3000 psi (200 bar)	0.025%	6000 psi (220bar)	G or A

<sup>\*</sup>Combined non-linearity, hysteresis and repeatability

Temperature Effects (averaged and w.r.t. 20°C ±0.004% of reading/°C

## Stability

0.015% of reading/annum

#### Pressure source

- Built-in Nitrogen/Air cylinder; maximum renil pressure 3000 psi (200 bar).
- Storage volume: 122 cu in (2 L)
- Recommended media: Oxygen Free Nitrogen
- Remote pressure sensors: Prose consult factory for list

## Electrical

In addition to pressure the dual display can simultaneously monitor mA, V which, continuity and ambient temperature. Also, 20 VC. and 24 VDC power supplies are available for the serice under test.

~						
Input	Range	Accuracy	Resolution	Remarks		
Voltage*	±50 VDC	0.05% reading	100	Autoranging		
voitage	130 VDC	0.0570 redding	100	Autorunging		
		0.004% FS	maximum	>10 Ω		
Current*	±55 mA	0.05% Reading	0.001 mA	10 Ω, 50 V		
		0.004% FS		maximum		
Temperature	15°F to 105°F ±2°F (±0.1°C) 0.1°F (0.1°C)		Case			
	(-10°C to 40	ambient				
Switch	Open/Close	d		5 mA		
				whetting		

Output	Range	Accuracy	Resolution	Remarks
Voltage	10 VDC	0.1%	100 microV	Maximum
			maximum	load 10 mA
Voltage	24 VDC	5%	0.001 mA	Maximum load 26 mA

## **Electrical Stability**

0.03% of reading/annum

## Features

#### **Pressure Units**

25 scale units plus one user defined

#### mA Source

Auto 10 sec step cycle and programmable camp (60 sec end-to-end)

## **Process Function**

Filter, maximum finitum, tare, flow, and % spar

## Power Management

Auto power off, auto beeright off, battery status

ndicata

## Display

2.36 in x 36 m (60 mm x 60 mm) graphic LCD with backlight. V-99999 readout, two readings per second

## at Storage

bytes memory

## Environmental

#### **Temperature**

- Operating range: 15°F to 120°F (-10°C to 50°C)
- Calibrated: 15° to 105°F (-10°C to 40°C)

#### Humidity

0 to 90%, non-condensing

#### Sealing

Type 12/IP54 in operation (IP65 when closed)

#### Conformity

EN 61010, EN 61326 Class A, CE marked

## Physical

- Weight: 28 lb (12.8 kg)
- Approximate size (w x | x d): 16.9 in x 10 in x 6.5 in (429 mm x 254 mm x 165 mm)

<sup>\*\*</sup>G = Gage, A = Absolute (pressure reference)

<sup>\*</sup>Temperature coefficient 0.004% reading NISTs, ISO FECT ANSI, NCSL, MIL-STD by www.raeservices.com

# DPI 320/325 Specifications

## Power supply

Battery powered  $6 \times 1.5$  V NiCad cells—20 hours nominal use at  $68^{\circ}$ F (20°C). The unit will operate from an AC power supply, 85 to 265 V, 45 to 400 Hz, and allow the battery pack to recharge. A low battery condition is indicated on the display.

The fully documenting DPI 325 also provides the following additional features:

- Calibration mode, showing on-line error analysis indicating pass/fail status. Storage of as-found and as-left results.
- Graphical analysis of results, showing pass/fail tolerance. Two-way PC interface for transferring text procedures and results.
- Compatible with Intecal calibration management software.

Confirm availability with your GE representative

## **Options**

## Remote Pressure Sensor

The calibrators have a second pressure change that can be configured with up to 10 periode servers one at a time). The sensors are supplied with a electrical connector and (/f in the female or 5 )/4 female pressure ports. A methyl cable stedured.

## Mating Cable for Remote Sensor

A 6 ft (1.8 m) mating cable for connecting remote sensors to the calibrator. At least one should be ordered when ordering a remote pressure sensor.

#### **Intecal Software**

For a 30 day free trial of Intecal, please visit www.gesensing.com.

## **Carrying Case**

A backpack-style carrying case with padded shoulder straps and adjustable chest band provides a stable and comfortable carrying system for the DPI 320 Series. It features a large pocket resigned to carry the DPI 320 Series accessories and options

## Accessories

The DPI 320/725 Spies is supplied with a battery charger, test leads, RS23 Edble, user manual, pressure test certificate, calluration certificate and accessory bag as standard.

The introgen cylind will be supplied empty, for filling

## Calibration Standards

response to the contract of th

## Ordering Information

Please state the following (where applicable):

- 1. DPI 320 or DPI 325 type number
- Internal pressure range required
- 3. Options, (if required) including range for remote sensor

Remote pressure sensor and cable should be ordered as separate line items.



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All specifications are subject to change for product improvement without notice.

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