

GE  
Measurement & Control

# DPI 620 Genii

Advanced Modular Calibrator and HART®/  
Foundation Fieldbus™ Communicator

Combines an advanced multi-function calibrator and HART /Foundation Fieldbus  
communicator with world-class pressure measurement and generation.



GE imagination at work

# A flexible modular system

The Druck DPI 620 Genii Series - Advanced Modular Calibrator and HART/Fieldbus Communicator comprises four system components to provide the multi-functionality to perform duties formerly requiring a wide range of different instruments. These system components are:

- DPI 620G - Multi-function calibrator, HART/Fieldbus Communicator
- PM 620 - Interchangeable pressure modules
- MC 620G - Pressure module carrier
- PV 62XG - Pressure generating stations

*Note: All previous generation DPI 620 series and the new DPI 620 Genii series products (including accessories) are compatible with each other.*

## Features

- Multi-function capabilities: electrical, frequency, temperature and pressure
- Complete HART communicator included
- Optional Foundation Fieldbus communicator
- Modular re-rangeable and expandable concept
- Individual components can be used as stand-alone instruments
- Allows significant inventory reductions
- Simplifies training and improves operator safety
- Reduces cost of ownership

MC 620/G Pressure Module Carrier. Securely attaches to the DPI 620/G when pressure measurement is required.

PM620 Pressure Module

DPI 620G Multifunction Calibrator and Communicator



Measure and source mA, mV, V, ohms, frequency, RTD's and thermocouples.

Re-rangeable dual channel pressure measurement from 25 mbar (10 inH<sub>2</sub>O) to 1000 bar (15000 psi)

PM 620

PV 62X/G Pressure Station. The DPI 620/G securely attaches to the pressure stations when pressure generation and measurement is required.

DPI 620/G



Re-rangeable pressure measurement and generation from 25 mbar (10 inH<sub>2</sub>O) to 1000 bar (15000 psi)

# DPI 620 Genii

This ultra-compact electrical, frequency and temperature calibrator with full HART communicator and optional Foundation Fieldbus communicator provides simultaneous measurement and source capabilities for the setup, testing and calibration of most types of process instruments including transmitters, transducers, gauges/indicators, switches, proximity detectors, counters, RTDs, thermocouples and valve positioners.

## What's new in Genii compared to the old DPI 620?

- Smart phone technology touch display and new UI (User Interface) supporting gestures and swipes for a flatter menu structure and greater ease of use.
- Completely new digital platform and modems to support HART and Fieldbus applications.
- New DASHBOARD to quickly launch applications such as CALIBRATOR, HART and SETUP.
- TASK menu allows single touch configuration for common devices such as pressure and temperature transmitters, transducers, switches and valve positioners. User configured and frequently used tasks can be added to the Favourites menu for even quicker access.
- All first generation DPI 620 and the new Genii system components are fully interchangeable; e.g. pressure stations, pressure modules and all accessories.

## Standard Dashboard Applications:

### Calibrator

- One touch selection of common tasks, e.g. P to I for a pressure transmitter
- Highest accuracy for measuring, sourcing and simulating electrical, frequency, temperature and pressure
- Simulate device inputs and measure outputs simultaneously (up to 6 active channels)
- Calculates errors between inputs/outputs
- Pressure system generates 100 bar/1,500 psi pneumatic and 1000 bar/15,000 psi hydraulic pressures.
- Interchangeable pressure modules from 25 mbar/10 inH<sub>2</sub>O to 1,000 bar/15,000 psi

### Documenting

- Data log up to six channels simultaneously
- Automate calibration procedures and Document As Found and As Left results
- Store a complete plant database of procedures and results
- View standard office documents, including images, text files, spreadsheets and presentations

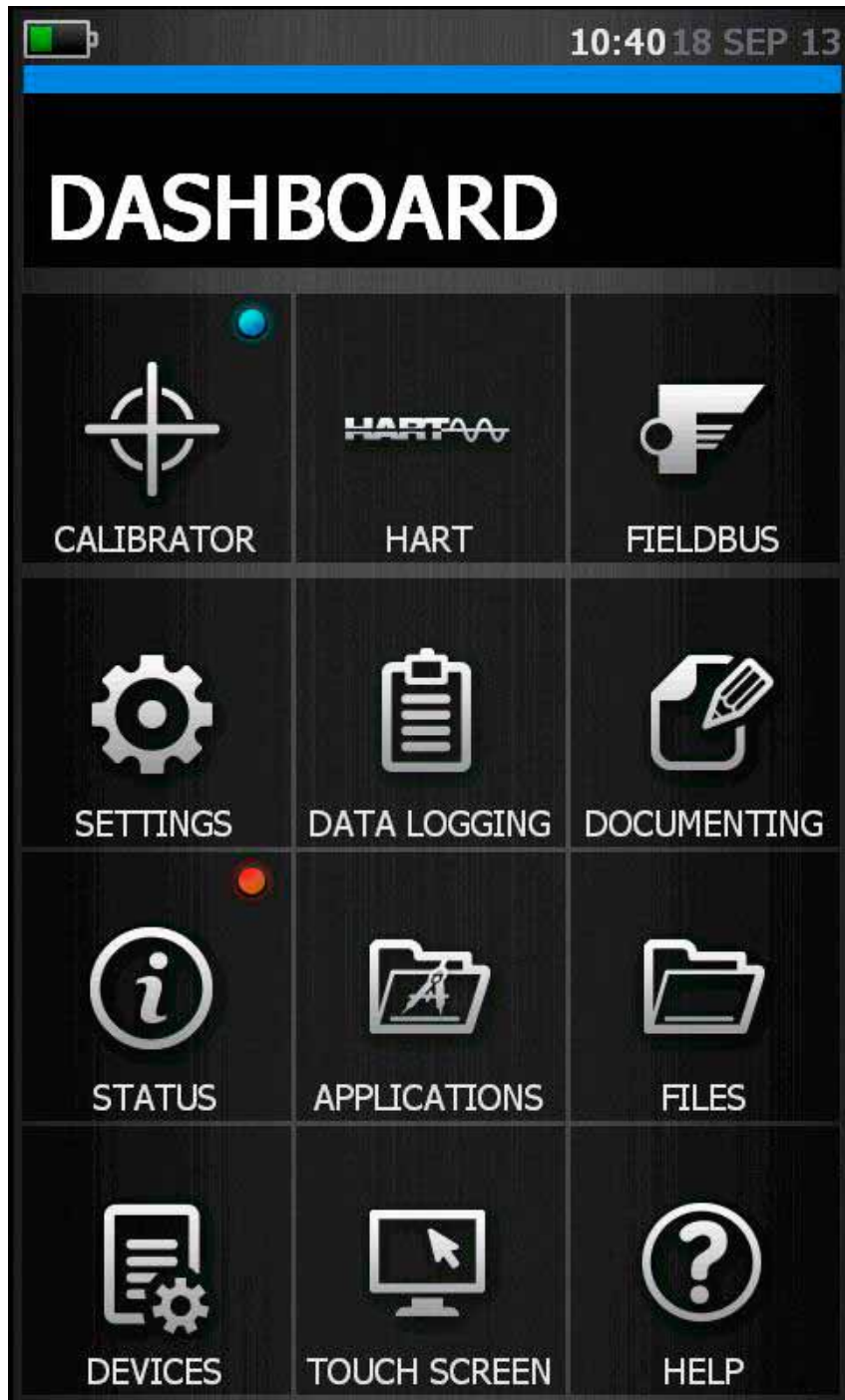
### HART Communicator

- Measure and source analogue variables without secondary calibration equipment
- No power during shutdown? Genii provides 24 V or 28 V
- Need a 250 ohm resistor? Just select from the menu
- It's easy to upgrade Genii with free of charge software and latest DD library
- View, change, clone and store device configurations
- Work off-line to create and change configurations
- Transfer device configurations to your PC

### Foundation Fieldbus communicator - optional

- Fully featured Fieldbus communicator for device configuration and calibration
- Complete device description library
- It's easy to upgrade Genii with free of charge software and latest DD library

*“Simply, the most advanced test tool available”*



# Technical Specifications

## DPI 620 Genii General Specifications

|                       |   |
|-----------------------|---|
| Processor and memory  | 800 MHz ARM Cortex - A8 Processor<br>512 MB 800 MHz SDRAM<br>4GB Internal flash memory<br>8GB Removable microSD card - provided as standard (Accepts cards up to 32 GB).  |
| Display               | Size: 110 mm (4.3 in) diagonal; 480 x 800 pixels<br>LCD: Colour display with touch-screen<br>Protected by 2mm toughened glass, impact tested in accordance with BS EN 61010-1:2010 (0.5kg object from 1 meter).   |
| File Viewers          | A Windows® desktop is available for managing files, running third party applications and viewing simple images, Word documents, Excel spreadsheets, PDF files and PowerPoint files.   |
| Languages             | English (Default), Chinese, French, German, Italian, Portuguese, Russian, Spanish, Dutch, Japanese  |
| Operating temperature | -10° to 50°C (14° to 122°F)   |
| Storage temperature   | -20° to 70°C (-4° to 158°F)   |
| Ingress Protection    | IP55  |
| Humidity              | 0 to 90% RH Non condensing  |
| Shock / Vibration     | BS EN 61010-1:2010; MIL-PRF-28800F for Class II equipment, 1 m Drop Tested  |
| EMC                   | Electromagnetic compatibility: BS EN 61326-1:2006   |
| Electrical safety     | Electrical - BS EN 61010-1: 2010  |
| Pressure safety       | Pressure Equipment Directive - Class: Sound Engineering Practice (SEP)  |
| Approved              | CE Marked   |
| Size (L: W: H)        | DPI 620 Genii only: 183 x114 x 42 mm (7.2 x 4.5 x 1.7 in)   |
| Weight                | DPI 620 Genii only: ≈ 575 g (1.3 lb) – battery included.  |
| Power supply          | Lithium-Polymer battery (GE Part number : IO620-Battery); Capacity: 5040 mAh (minimum), 5280 mAh (typical); Nominal voltage: 3.7 V. Charge temperature: 0° to 40°C (32° to 104°F) Discharge temperature: -20° to 60°C (-4° to 140°F).<br><b>Note:</b> For best battery performance, keep the temperature less than 60°C (140°F). Charge/discharge cycles: > 500 > 70% capacity. |
| Duration              | Measure functions (CH1): ≈ 12 hours continuous. Dual Function, mA measure (CH2): ≈ 7 hours (24 V Source at 12 mA)   |
| Connectivity          | USB Type A, USB Type Mini B   |

## Electrical Measurement and Source

|                              |  | NLH&R<br>±1°C (2°F) for 24 hrs<br>(note 2)   |          | Total Uncertainty<br>10° to 30°C (50° to 86°F)<br>for 1 year (note 3) |          | Additional error<br>-10° to 10°C (14° to 50°F)<br>30° to 50°C (86° to 122°F) |          | Resolution | Display<br>reading<br>window |             |
|------------------------------|--|--|----------|---|----------|--|----------|------------|------------------------------|-------------|
|                              |  | %Rdg   | + %FS    | %Rdg  | + %FS    | %Rdg/°C  | + %FS/°C |            |                              |             |
| <b>Measure mode</b>          |  |  |          |   |          |  |          |            |                              |             |
| DC Voltage                   | Thermocouple                                       | Please refer to Thermocouple specification table   |          |   |          |  |          |            |                              | CH1         |
|                              | TC mode -10 to 100 mV                              | 0.0045   | 0.008    | 0.007   | 0.01     | 0  | 0.0005   | 0.001      | CH1                          |             |
|                              | ± 200 mV   | 0.0045   | 0.004    | 0.01  | 0.005    | 0  | 0.0005   | 0.001      | CH1 CH2                      |             |
|                              | ± 2000 mV  | 0.004  | 0.003    | 0.0095  | 0.005    | 0  | 0.0005   | 0.01       | CH1 CH2                      |             |
|                              | ± 20 V   | 0.0025   | 0.002    | 0.0145  | 0.002    | 0  | 0.0005   | 0.00001    | CH1 CH2                      |             |
| AC Voltage <sup>1</sup>      | ± 30 V   | 0.0035   | 0.0035   | 0.0145  | 0.004    | 0  | 0.0005   | 0.0001     | CH1 CH2                      |             |
|                              | 0 to 2000 mVAC                                     | 0.125  | 0.125    | 0.2   | 0.15     | 0.005  | 0.005    | 0.1        | CH1                          |             |
|                              | 0 to 20 VAC  | 0.1255   | 0.125    | 0.2   | 0.15     | 0.005  | 0.005    | 0.001      | CH1                          |             |
|                              | 0 to 300 VAC                                       | 1  | 0.06     | 1.5   | 0.1      | 0.05   | 0.005    | 0.01       | CH1                          |             |
| Current                      | ± 20 mA  | 0.006  | 0.005    | 0.012   | 0.006    | 0  | 0.0005   | 0.0001     | CH1 CH2                      |             |
|                              | ± 55 mA  | 0.005  | 0.005    | 0.016   | 0.005    | 0  | 0.0005   | 0.0001     | CH1 CH2                      |             |
| Resistance<br>(True, 4 wire) | RTD  | Please refer to RTD specification table  |          |   |          |  |          |            |                              | CH1         |
|                              | 0 to 400 Ω   | 0.0055   | 0.001    | 0.009   | 0.0012   | 0  | 0.0005   | 0.001      | CH1                          |             |
|                              | 0 to 4000 Ω  | 0.0055   | 0.001    | 0.009   | 0.0012   | 0  | 0.0005   | 0.01       | CH1                          |             |
| Resistance<br>(4 wire)       | RTD  | Please refer to RTD specification table  |          |   |          |  |          |            |                              | CH1         |
|                              | 0 to 400 Ω   | 0.012  | 0.005    | 0.015   | 0.006    | 0  | 0.001    | 0.001      | CH1                          |             |
|                              | 0 to 4000 Ω  | 0.0115   | 0.0045   | 0.015   | 0.006    | 0  | 0.001    | 0.01       | CH1                          |             |
| Frequency                    | 0 to 1000 Hz                                       | 0.0003   | 0.0002   | 0.003   | 0.0002   |  |          | 0.0001     | CH1                          |             |
|                              | 1 kHz to 50 kHz                                    | 0.0003   | 0.0004   | 0.003   | 0.0004   |  |          | 0.00001    | CH1                          |             |
|                              | 0 to 999999 CPM                                    | Refer to range table above for equivalent frequency  |          |   |          |  |          |            | 0.01                         | CH1         |
|                              | 0 to 999999 CPH                                    | Refer to range table above for equivalent frequency  |          |   |          |  |          |            | 0.01                         | CH1         |
|                              | Totalizing counter                                 | Maximum count 9999999  |          |   |          |  |          |            | 1                            | CH1         |
|                              | Trigger level                                      | Automatic or manual setting 0 to 20 V  |          |   |          |  |          |            | 0.1                          |             |
| Pressure                     | 25 mbar to 1000 bar<br>(0.35 psi to 15000 psi)     | Please refer to PM 620 pressure range table  |          |   |          |  |          |            |                              | P1 P2       |
|                              | IDOS external module<br>USB port                   | Please refer to IDOS UPM datasheet. Cable P/N IO620-IDOS-USB+IO620-USB-PC required   |          |   |          |  |          |            |                              | IDOS<br>USB |
| <b>Source mode</b>           |  |  |          |   |          |  |          |            |                              |             |
| DC Voltage                   | TC mode  | Please refer to Thermocouple specification table   |          |   |          |  |          |            |                              |             |
|                              | TC mode -10 to 100 mV                              | 0.009  | 0.008    | 0.014   | 0.01     | 0  | 0.0005   | 0.001      | CH1                          |             |
|                              | 0 to 200 mV  | 0.0045   | 0.004    | 0.01  | 0.005    | 0  | 0.0005   | 0.1        | CH1                          |             |
|                              | 0 to 2000 mV                                       | 0.004  | 0.003    | 0.009   | 0.005    | 0  | 0.0005   | 0.1        | CH1                          |             |
|                              | 0 to 20 V (3 mA max)                               | 0.006  | 0.002    | 0.0145  | 0.002    | 0  | 0.0005   | 0.001      | CH1                          |             |
| Current                      | 0 to 24 mA   | 0.01   | 0.004    | 0.015   | 0.005    | 0  | 0.0005   | 0.001      | CH1 CH2                      |             |
|                              | 0 to 24 mA (Internal loop<br>power)                | 0.01   | 0.004    | 0.015   | 0.005    | 0  | 0.0005   | 0.001      | CH2                          |             |
|                              | 24 V loop power                                    | Selectable 24 V +/- 10% or 28V +/-10%  |          |   |          |  |          |            |                              |             |
| Resistance                   | RTD  | Please refer to RTD specification table  |          |   |          |  |          |            |                              | CH1         |
|                              | 0 to 400 Ω (0.1mA)                                 | 0.024  | 0.0035   | 0.03  | 0.0075   | 0  | 0.001    | 0.01       | CH1                          |             |
|                              | 0 to 400 Ω (0.5mA)                                 | 0.004  | 0.0025   | 0.008   | 0.003    | 0  | 0.001    | 0.01       | CH1                          |             |
|                              | 400 to 2000 Ω (0.05mA)                             | 0.048  | 0.0035   | 0.06  | 0.006    | 0  | 0.001    | 0.01       | CH1                          |             |
|                              | 2k to 4 kΩ (0.05mA)                                | 0.048  | 0.0035   | 0.06  | 0.0045   | 0  | 0.001    | 0.01       | CH1                          |             |
|                              | Maximum input current                              | 0-400 Ω 5 mA, 400-2000 Ω 1mA, 2000-4000 Ω 0.5 mA   |          |   |          |  |          |            |                              |             |
| Frequency                    | 0 to 1000 Hz                                       | 0.0003   | 0.00023  | 0.003   | 0.00023  |  |          | 0.1        | CH1                          |             |
|                              | 1 kHz to 50 kHz                                    | 0.0003   | 0.000074 | 0.003   | 0.000074 |  |          | 0.001      | CH1                          |             |
|                              | Output waveform                                    | Square, positive swing up to 20V (adjustable), negative swing -120mV (fixed)<br>Sine and Triangular, adjustable amplitude and offset within the limits -2.5 to +20 V |          |   |          |  |          |            |                              |             |
|                              | Square wave peak output                            | 0 to 20V +/-20mV (3 mA maximum)  |          |   |          |  |          |            |                              |             |
|                              | 0 to 99999 CPM                                     | Please refer to range table above for equivalent frequency   |          |   |          |  |          |            | 1                            | CH1         |
|                              | 0 to 99999 CPH                                     | Please refer to range table above for equivalent frequency   |          |   |          |  |          |            | 1                            | CH1         |
| Totalizing counter           | Maximum count 1000000. Rate 1 to 50,000 pulses/sec |  |          |   |          |  |          | 1          | CH1                          |             |

### Notes:

1. Specification applies, 45 to 65Hz and between 10% and 100% of full scale.
2. Specification applies when calibration temperature is between 10 and 30°C
3. Total uncertainty includes reference standard uncertainty, NLH&R and typical long term stability for one year (K=2).

### Multiple parameter display capability

The display can be configured to show a maximum of 6 simultaneous reading windows as follows: CH1, CH2, P1, P2, IDOS, HART

### "True Ohms" RTD Measure Mode (4-wire)

| Type    | Temperature coefficient | Temperature range |         |         |         | Total Uncertainty<br>10° to 30°C (50° to 86°F) for 1 year |       |       |
|---------|-------------------------|-------------------|---------|---------|---------|---|-------|-------|
|         |                         | °C                |         | °F      |         | Rdg   | Tos   |       |
|         |                         | From              | To      | From    | To      |   | %     | °C    |
| Pt 50   | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.012   | 0.05  | 0.09  |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.012   | 0.05  | 0.09  |
| Pt 100  | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.012   | 0.04  | 0.07  |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.012   | 0.04  | 0.07  |
| Pt 100  | 3.92                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.012   | 0.04  | 0.07  |
| Pt 200  | 3.85                    | 0.00              | 850.00  | 32.00   | 1562.00 | 0.012   | 0.04  | 0.07  |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.01  | 0.03  | 0.051 |
| Pt 500  | 3.85                    | 0.00              | 260.00  | 32.00   | 500.00  | 0.01  | 0.03  | 0.051 |
|         |                         | 260.00            | 850.00  | 500.00  | 1562.00 | 0.015   | 0.077 | 0.14  |
|         |                         | -200.00           | -60.00  | -328.00 | -76.00  | 0.01  | 0.026 | 0.044 |
| Pt 1000 | 3.85                    | -60.00            | 0.00    | -76.00  | 32.00   | 0.015   | 0.05  | 0.086 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.012   | 0.05  | 0.086 |
|         |                         | -200.00           | -150.00 | -328.00 | -238.00 | 0.009   | 0.024 | 0.04  |
| Cu 10   | 4.27                    | -150.00           | 0.00    | -238.00 | 32.00   | 0.011   | 0.036 | 0.061 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.012   | 0.036 | 0.061 |
| D 100   | 6.18                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.00  | 0.14  | 0.25  |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.00  | 0.17  | 0.3   |
| Ni 100  | 6.72                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.01  | 0.035 | 0.06  |
|         |                         | 0.00              | 640.00  | 32.00   | 1184.00 | 0.012   | 0.035 | 0.06  |
| Ni 120  | 6.72                    | -60.00            | 0.00    | -76.00  | 32.00   | 0.00  | 0.026 | 0.047 |
|         |                         | 0.00              | 250.00  | 32.00   | 482.00  | 0.00  | 0.03  | 0.055 |
| Ni 120  | 6.72                    | -80.00            | 0.00    | -112.00 | 32.00   | 0.00  | 0.022 | 0.04  |
|         |                         | 0.00              | 270.00  | 32.00   | 518.00  | 0.00  | 0.028 | 0.05  |
|         |                         | 270.00            | 320.00  | 518.00  | 608.00  | 0.00  | 0.057 | 0.1   |

### Standard RTD Measure Mode (4-wire)

| Type    | Temperature coefficient | Temperature range |         |         |         | Total Uncertainty<br>10° to 30°C (50° to 86°F) for 1 year |       |       |
|---------|-------------------------|-------------------|---------|---------|---------|---|-------|-------|
|         |                         | °C                |         | °F      |         | Rdg   | Tos   |       |
|         |                         | From              | To      | From    | To      |   | %     | °C    |
| Pt 50   | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.021   | 0.16  | 0.28  |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.024   | 0.16  | 0.28  |
| Pt 100  | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.017   | 0.1   | 0.175 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.0215  | 0.1   | 0.174 |
| Pt 100  | 3.92                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.017   | 0.1   | 0.175 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.0215  | 0.1   | 0.174 |
| Pt 200  | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.017   | 0.069 | 0.12  |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.018   | 0.069 | 0.12  |
|         |                         | 260.00            | 850.00  | 500.00  | 1562.00 | 0.033   | 0.33  | 0.6   |
| Pt 500  | 3.85                    | -200.00           | -60.00  | -328.00 | -76.00  | 0.0165  | 0.051 | 0.09  |
|         |                         | -60.00            | 0.00    | -76.00  | 32.00   | 0.017   | 0.16  | 0.29  |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.024   | 0.16  | 0.28  |
| Pt 1000 | 3.85                    | -200.00           | -150.00 | -328.00 | -238.00 | 0.016   | 0.044 | 0.074 |
|         |                         | -150.00           | 0.00    | -238.00 | 32.00   | 0.018   | 0.1   | 0.175 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.0215  | 0.1   | 0.174 |
| Cu 10   | 4.27                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.035   | 0.66  | 1.18  |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.01  | 0.66  | 1.18  |
| D 100   | 6.18                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.019   | 0.1   | 0.174 |
|         |                         | 0.00              | 640.00  | 32.00   | 1184.00 | 0.02  | 0.1   | 0.174 |
| Ni 100  | 6.72                    | -60.00            | 0.00    | -76.00  | 32.00   | 0.00  | 0.071 | 0.13  |
|         |                         | 0.00              | 250.00  | 32.00   | 482.00  | 0.002   | 0.071 | 0.13  |
| Ni 120  | 6.72                    | -80.00            | 0.00    | -112.00 | 32.00   | 0.00  | 0.06  | 0.11  |
|         |                         | 0.00              | 270.00  | 32.00   | 518.00  | 0.00  | 0.06  | 0.11  |
|         |                         | 270.00            | 320.00  | 518.00  | 608.00  | 0.00  | 0.2   | 0.36  |

### RTD Simulate Mode (0.1mA min, 0-400Ω; 0.05mA min, 400-4000Ω)

| Type    | Temperature coefficient | Temperature range |         |         |         | Total Uncertainty<br>10° to 30°C (50° to 86°F) for 1 year |       |      |
|---------|-------------------------|-------------------|---------|---------|---------|---|-------|------|
|         |                         | °C                |         | °F      |         | Rdg   | Tos   |      |
|         |                         | From              | To      | From    | To      |   | %     | °C   |
| Pt 50   | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.043   | 0.24  | 0.42 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.043   | 0.24  | 0.42 |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.04  | 0.16  | 0.28 |
| Pt 100  | 3.85                    | 0.00              | 850.00  | 32.00   | 1562.00 | 0.04  | 0.16  | 0.28 |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.0345  | 0.12  | 0.21 |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.0345  | 0.12  | 0.21 |
| Pt 100  | 3.92                    | 260.00            | 850.00  | 500.00  | 1562.00 | 0.087   | 0.28  | 0.48 |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.04  | 0.16  | 0.28 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.04  | 0.16  | 0.28 |
| Pt 200  | 3.85                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.0345  | 0.12  | 0.21 |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.0345  | 0.12  | 0.21 |
|         |                         | 260.00            | 850.00  | 500.00  | 1562.00 | 0.087   | 0.28  | 0.48 |
| Pt 500  | 3.85                    | -200.00           | -60.00  | -328.00 | -76.00  | 0.033   | 0.095 | 0.16 |
|         |                         | -60.00            | 0.00    | -76.00  | 32.00   | 0.078   | 0.23  | 0.39 |
|         |                         | 0.00              | 850.00  | 32.00   | 1562.00 | 0.078   | 0.23  | 0.39 |
| Pt 1000 | 3.85                    | -200.00           | -150.00 | -328.00 | -238.00 | 0.032   | 0.085 | 0.15 |
|         |                         | -150.00           | 0.00    | -238.00 | 32.00   | 0.0675  | 0.19  | 0.32 |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.0675  | 0.19  | 0.32 |
| Cu 10   | 4.27                    | 260.00            | 850.00  | 500.00  | 1562.00 | 0.082   | 0.17  | 0.28 |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.00  | 0.85  | 1.53 |
|         |                         | 0.00              | 260.00  | 32.00   | 500.00  | 0.00  | 0.92  | 1.66 |
| D 100   | 6.18                    | -200.00           | 0.00    | -328.00 | 32.00   | 0.038   | 0.16  | 0.28 |
|         |                         | 0.00              | 640.00  | 32.00   | 1184.00 | 0.038   | 0.16  | 0.28 |
|         |                         | -200.00           | 0.00    | -328.00 | 32.00   | 0.00  | 0.12  | 0.22 |
| Ni 100  | 6.72                    | 0.00              | 250.00  | 32.00   | 482.00  | 0.00  | 0.12  | 0.22 |
|         |                         | -60.00            | 0.00    | -76.00  | 32.00   | 0.00  | 0.12  | 0.22 |
|         |                         | 0.00              | 270.00  | 32.00   | 518.00  | 0.00  | 0.11  | 0.2  |
| Ni 120  | 6.72                    | -80.00            | 0.00    | -112.00 | 32.00   | 0.00  | 0.11  | 0.2  |
|         |                         | 0.00              | 270.00  | 32.00   | 518.00  | 0.00  | 0.11  | 0.2  |
|         |                         | 270.00            | 320.00  | 518.00  | 608.00  | 0.00  | 0.25  | 0.45 |

Note:

These figures relate to DPI 620 Genii uncertainties only.

For RTD Measure and Source functions the uncertainty is given by:-

$$Urtd = T(^{\circ}C) \times \%Rdg + Tos (^{\circ}C)$$

or

$$Urtd = T(^{\circ}F) \times \%Rdg + Tos (^{\circ}F)$$

where T() is the measurement expressed in °C or °F.

**Measurement resolution:**

0.01 °C/F.

Simulation resolution 0.1 °C/F

**Excitation current:**

Measure mode 0 to 400Ω 2.5mA, 400Ω to 4000Ω 0.5mA;

Simulate mode 0 to 400 Ω 5mA max, 0.4 to 2kΩ 1mA max and 2 to 4kΩ 0.5mA max.

Simulate mode pulsed excitation current minimum duration 10 ms



Specifications relate to DPI 620 Genii uncertainties only.

Measurement resolution 0.01 °C/F.  
Simulation resolution 0.1 °C/F

Cold Junction (CJ) Uncertainty 0.2°C (0.4°F)  
in ambient range 10 to 30°C (50 to 86°F)

Add 0.01° CJ Uncertainty/° outside of this ambient range

## Thermocouple Measurement and Simulation

| Type | Standard  | Temperature range<br>(range shows correct resolution) |         |         |         | Total Uncertainty<br>10° to 30°C (50° to 86°F)<br>for 1 year |       |
|------|-----------|---|---------|---------|---------|--|-------|
|      |           | °C  |         | °F      |         | °C   | °F    |
|      |           | From  | To      | From    | To      |  |       |
| B    | IEC 584   | 250.00  | 500.00  | 482.00  | 932.00  | 4.00   | 7.20  |
|      |           | 500.00  | 700.00  | 932.00  | 1292.00 | 2.00   | 3.60  |
|      |           | 700.00  | 1200.00 | 1292.00 | 2192.00 | 1.50   | 2.70  |
| E    | IEC 584   | -270.00   | -200.00 | -454.00 | -328.00 | 2.00   | 3.60  |
|      |           | -200.00   | -120.00 | -328.00 | -184.00 | 0.50   | 0.90  |
|      |           | -120.00   | 1000.00 | -184.00 | 1832.00 | 0.25   | 0.45  |
| J    | IEC 584   | -210.00   | -140.00 | -346.00 | -220.00 | 0.50   | 0.90  |
|      |           | -140.00   | 1200.00 | -220.00 | 2192.00 | 0.30   | 0.54  |
| K    | IEC 584   | -270.00   | -220.00 | -454.00 | -364.00 | 4.00   | 7.20  |
|      |           | -220.00   | -160.00 | -364.00 | -256.00 | 1.00   | 1.80  |
|      |           | -160.00   | -60.00  | -256.00 | -76.00  | 0.50   | 0.90  |
|      |           | -60.00  | 800.00  | -76.00  | 1472.00 | 0.30   | 0.54  |
| L    | DIN 43710 | 800.00  | 1370.00 | 1472.00 | 2498.00 | 0.50   | 0.90  |
|      |           | -200.00   | -100.00 | -328.00 | -148.00 | 0.40   | 0.72  |
| N    | IEC 584   | -100.00   | 900.00  | -148.00 | 1652.00 | 0.25   | 0.45  |
|      |           | -270.00   | -200.00 | -454.00 | -328.00 | 7.00   | 12.60 |
|      |           | -200.00   | -40.00  | -328.00 | -40.00  | 1.00   | 1.80  |
| R    | IEC 584   | -40.00  | 1300.00 | -40.00  | 2372.00 | 0.40   | 0.72  |
|      |           | -50.00  | 360.00  | -58.00  | 680.00  | 3.00   | 5.40  |
| S    | IEC 584   | 360.00  | 1760.00 | 680.00  | 3200.00 | 1.00   | 1.80  |
|      |           | -50.00  | 70.00   | -58.00  | 158.00  | 3.00   | 5.40  |
| T    | IEC 584   | 70.00   | 320.00  | 158.00  | 608.00  | 1.50   | 2.70  |
|      |           | 320.00  | 660.00  | 608.00  | 1220.00 | 1.10   | 1.98  |
|      |           | 660.00  | 1740.00 | 1220.00 | 3164.00 | 1.00   | 1.80  |
|      |           | -270.00   | -230.00 | -454.00 | -382.00 | 3.00   | 5.40  |
| U    | DIN 43710 | -230.00   | -50.00  | -382.00 | -58.00  | 1.00   | 1.80  |
|      |           | -50.00  | 400.00  | -58.00  | 752.00  | 0.30   | 0.54  |
|      |           | -200.00   | -50.00  | -328.00 | -58.00  | 0.60   | 1.08  |
| C    |           | -50.00  | 600.00  | -58.00  | 1112.00 | 0.30   | 0.54  |
|      |           | 0.00  | 1600.00 | 32.00   | 2912.00 | 0.80   | 1.44  |
|      |           | 1600.00   | 2000.00 | 2912.00 | 3632.00 | 1.00   | 1.80  |
| D    |           | 2000.00   | 2300.00 | 3632.00 | 4172.00 | 1.40   | 2.52  |
|      |           | 0.00  | 100.00  | 32.00   | 212.00  | 1.10   | 1.98  |
|      |           | 100.00  | 270.00  | 212.00  | 518.00  | 0.80   | 1.44  |
|      |           | 270.00  | 1200.00 | 518.00  | 2192.00 | 0.60   | 1.08  |
|      |           | 1200.00   | 1800.00 | 2192.00 | 3272.00 | 0.80   | 1.44  |

# PM 620 Pressure Modules

## Features

- Fully interchangeable with no need for set-up or calibration
- Simple screw fit - hand tight no tools required
- Ranges from 25 mbar to 1000 bar (10 inH<sub>2</sub>O to 15000 psi)
- Accuracy from 0.005% FS

The PM 620 is the latest development in digital output sensor technology incorporating a number of key innovations to allow pressure re-ranging of compatible equipment. A simple screw fit makes both the pressure and electrical connections without the need for tools, sealing tape, cables or plugs and digital characterisation allows interchangeability without set-up or calibration.

# MC 620/G Module Carrier

## Features

- 2 independent pressure channels
- Simple to re-range
- Pressure protection

The MC 620/G module carrier attaches to the head of the DPI 620/G to provide two independent pressure measurement channels. These can be fitted with any PM 620 pressure module from 25 mbar to 1000 bar (10 inH<sub>2</sub>O to 15000 psi). A simple screw fit means no tools are required and ensures both a high integrity pressure seal and a reliable digital interface. Even the pressure adapters are interchangeable and only require a finger tight fit.

The carrier is designed for pressure safety and will automatically seal if a module is not fitted or if the user attempts to remove it.

## MC 620/G Specification

|                  |  |
|------------------|--|
| Maximum pressure | 400 bar (5800 psi) pneumatic<br>1000 bar (15000 psi) hydraulic |
| Pressure media   | Compatible with stainless steel and nitrile seals              |
| Pressure safety  | Pressure equipment directive class SEP                         |
| Size and weight  | 80 mm x 100 mm x 110 mm, 640 g                                 |



## PM 620 Specification

|                               |   |
|-------------------------------|---|
| Maximum intermittent pressure | 2 x FS  |
| Maximum working pressure      | 110% FS   |
| Sealing                       | IP 65 (protected against dust and jets of water)                              |
| Operating temperature         | -10 to 50°C (14 to 122°F)   |
| Storage temperature           | -20 to 70°C (-4 to 158°F)   |
| Humidity                      | 0 to 90% RH non condensing  |
| Shock and vibration           | BS EN 61010-1:2010;<br>MIL-PRF-28800F for Class II equipment, 1 m Drop Tested |
| EMC                           | BS EN 61326-1:2006  |
| Electrical safety             | BS EN 61010-1:2010  |
| Pressure safety               | Pressure equipment directive class SEP  |
| Approval                      | CE marked   |
| Size and weight               | L. 56 mm, Dia. 44 mm,<br>106 g maximum  |

## Gauge Ranges (referenced to atmosphere)

|           |                        | Media | NLH&R<br>20°C ±2°C<br>(68°F ± 4°F)<br>24 hr | NLH&R<br>0° to 50°C<br>(32° to 122°F)<br>24 hr | Total<br>uncertainty<br>0° to 50°C<br>(32° to 122°F)<br>for 1 year |
|-----------|------------------------|-------|---|--|--|
|           |                        |       | Gauge                                       | Gauge  | Gauge  |
| bar       | psi                    |       | %FS   | %FS  | %FS  |
| ±0.025    | ±10 inH <sub>2</sub> O | 1     | 0.090                                       | 0.090  | 0.100  |
| ±0.07     | ±1                     | 1     | 0.025                                       | 0.030  | 0.047  |
| ±0.2      | ±3                     | 1     | 0.020                                       | 0.027  | 0.045  |
| ±0.35     | ±5                     | 2     | 0.020                                       | 0.025  | 0.044  |
| ±0.7      | ±10                    | 2     | 0.015                                       | 0.020  | 0.041  |
| ±1        | -14.5 to 15            | 2     | 0.015                                       | 0.020  | 0.041  |
| -1 to 2   | -14.5 to 30            | 2     | 0.015                                       | 0.020  | 0.025  |
| -1 to 3.5 | -14.5 to 50            | 2     | 0.010                                       | 0.020  | 0.025  |
| -1 to 7   | -14.5 to 100           | 2     | 0.010                                       | 0.020  | 0.025  |
| -1 to 10  | -14.5 to 150           | 2     | 0.005                                       | 0.020  | 0.025  |
| -1 to 20  | -14.5 to 300           | 2     | 0.005                                       | 0.020  | 0.025  |
| 0 to 35   | 0 to 500               | 2     | 0.005                                       | 0.020  | 0.025  |
| 0 to 70   | 0 to 1000              | 2     | 0.005                                       | 0.020  | 0.025  |
| 0 to 100  | 0 to 1500              | 2     | 0.005                                       | 0.020  | 0.025  |
| 0 to 135  | 0 to 2000              | 2     | 0.005                                       | 0.020  | 0.025  |
| 0 to 200  | 0 to 3000              | 2     | 0.005                                       | 0.020  | 0.025  |

NLH&R Non-linearity, hysteresis and repeatability

① Compatible with non-corrosive gas/fluid

② Compatible with stainless steel

\* The reading can be referenced to ambient air pressure via a software feature of the DPI 620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement

DPI 620 Genii pressure resolution: adjustable 4 to 7 digits. Uncertainty confidence level 95% (K=2)

## Absolute Ranges (referenced to vacuum)

|           |              | Media | NLH&R<br>20°C ±2°C<br>(68°F ± 4°F)<br>24 hr | NLH&R<br>20°C ±2°C<br>(68°F ± 4°F)<br>24 hr | NLH&R<br>0° to 50°C<br>(32° to 122°F)<br>24 hr | NLH&R<br>0° to 50°C<br>(32° to 122°F)<br>24 hr | Total uncertainty<br>0° to 50°C<br>(32° to 122°F)<br>for 1 year |                  |
|-----------|--------------|-------|---|---|--|--|---|------------------|
|           |              |       | Absolute                                    | *Sealed<br>Gauge                            | Absolute                                       | *Sealed<br>Gauge                               | Absolute  | *Sealed<br>Gauge |
| bar       | psi          |       | %FS   | %FS   | %FS  | %FS  | %FS   | %FS              |
| 0 to 0.35 | 0 to 5       | 2     | 0.030                                       |   | 0.050  |  | 0.080   |                  |
| 0 to 1.2  | 0 to 35 inHg | 2     | 0.020                                       |   | 0.036  |  | 0.070   |                  |
| 0 to 2    | 0 to 30      | 2     | 0.015                                       |   | 0.036  |  | 0.052   |                  |
| 0 to 3.5  | 0 to 50      | 2     | 0.015                                       |   | 0.036  |  | 0.050   |                  |
| 0 to 7    | 0 to 100     | 2     | 0.015                                       |   | 0.036  |  | 0.050   |                  |
| 0 to 10   | 0 to 150     | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.047   | 0.025            |
| 0 to 20   | 0 to 300     | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.047   | 0.025            |
| 0 to 35   | 0 to 500     | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.047   | 0.025            |
| 0 to 70   | 0 to 1000    | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.047   | 0.025            |
| 0 to 100  | 0 to 1500    | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.046   | 0.025            |
| 0 to 135  | 0 to 2000    | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.046   | 0.025            |
| 0 to 200  | 0 to 3000    | 2     | 0.015                                       | 0.005                                       | 0.030  | 0.020  | 0.046   | 0.025            |
| 0 to 350  | 0 to 5000    | 2     | 0.015                                       | 0.005                                       | 0.033  | 0.020  | 0.049   | 0.025            |
| 0 to 700  | 0 to 10000   | 2     | 0.015                                       | 0.005                                       | 0.033  | 0.020  | 0.049   | 0.025            |
| 0 to 1000 | 0 to 15000   | 2     | 0.015                                       | 0.005                                       | 0.033  | 0.020  | 0.049   | 0.025            |

# The PV 621/G, 622/G and 623/G Pressure Stations

## Features

- A uniquely capable, re-rangeable and self contained pressure test system
- Advanced pressure generation
  - 95% vacuum to 20 bar (300 psi) pneumatic
  - 95% vacuum to 100 bar (1500 psi) pneumatic
  - 0 to 1000 bar (15000 psi) hydraulic
- Stand alone replacements for hand pumps
- Bench top use as comparators

There are three pressure generation stations: the PV 621/G, a pneumatic pressure generator for pressures 95% vacuum to 20 bar (300 psi); the PV 622/G, a pneumatic pressure generator for pressures 95% vacuum to 100 bar (1500 psi); and the PV 623/G, a hydraulic pressure generator for pressures up to 1000 bar (15000 psi). Each pressure station is designed for stand-alone operation as a pressure generator and can replace conventional hand pumps to provide greater efficiency and ease of use. They can also be used on the workbench as comparators.

Combining any of the pressure stations with a PM 620 pressure module and the DPI 620/G calibrator creates a uniquely capable, self-contained pressure calibrator.

## PV 621/G, 622/G and 623/G Specification

|                       |  |
|-----------------------|--|
| Maximum pressure      | PV 621/G 20 bar (300 psi) pneumatic<br>PV 622/G 100 bar (1500 psi) pneumatic<br>PV 623/G 1000 bar (15000 psi) hydraulic  |
| Pressure media        | PV 621/G and PV 622/G non-corrosive gases,<br>PV 623/G de-mineralized water or mineral oil<br>(ISO viscosity grade < 22) |
| Operating temperature | -10° to 50°C (14° to 122°F)<br>For water +4 to +50°C (39 to 122°F)   |
| Storage temperature   | -20 to 70°C (-4 to 158°F) (must be empty of water)   |
| Shock and vibration   | BS EN 61010-1:2010; MIL-PRF-28800F for Class II equipment, 1 m drop tested   |
| Pressure safety       | Pressure equipment directive class SEP   |
| Size and weight       | 450 mm x 280 mm x 235 mm,<br>PV 621/G 2.65 kg, PV 622/G 3.30 kg, PV 623/G 3.75 kg  |



PV 622/G

# Ordering Information

All previous generation DPI 620 series/DPI 620 Genii series products are compatible with each other. For the intrinsically safe DPI 620IS and compatible accessories, please refer to the DPI 620IS datasheet.

Please order the following model numbers and part numbers as separate line items.

## Model DPI 620G

Genii advanced modular calibrator and HART communicator. Standard configuration includes all features except the Foundation™ Fieldbus communicator.



## Model DPI 620G FF

Genii advanced modular calibrator and HART/Fieldbus communicator.

## Model DPI 620G L

Model DPI 620GL Genii advanced modular calibrator retains all the features of Model DPI 620G, but does not include the HART or Fieldbus communicator.

The DPI 620G are supplied with a rechargeable lithium polymer battery P/N IO620-BATTERY, universal mains adaptor/charger P/N IO620-PSU, IO620-AC 300 VAC true rms measurement probe, test leads, calibration certificate, and quick reference guide.

## Model MC620G

Genii pressure module carrier  
Supplied with G 1/8 female and 1/8 NPT female adaptors (2 of each).



## Model PM 620 "pressure range" and "type"

Pressure module supplied with calibration certificate. Please state model number, range and type gauge or absolute, e.g., PM 620 20 bar (300 psi) gauge.



## Model PV621G

Pneumatic pressure station 20 bar (300 psi)

## Model PV622G

Pneumatic pressure station 100 bar (1500 psi)



## Model PV623G

Pressure station 1000 bar (15000 psi)

The PV 621/G, 622/G and 623/G are supplied with G1/8 female and 1/8 NPT female adaptors, carry strap, and quick reference guide. In addition, the PV 623/G includes a plastic refill bottle for hydraulic fluid.

# DPI 620/G Accessories

## Replacement AC voltage measurement probe (P/N IO620-AC)

Attaches to the DPI 620/G 30 V sockets to provide 300 VAC true rms measurement. P/N IO620-AC is supplied as standard with all new DPI 620/G.



## Carrying case (P/N IO620-CASE-1)

A protective carrying case with belt loop, shoulder strap and large detachable pocket for test leads and accessories.



## System carrying case (P/N IO620-CASE-2)

A protective carrying case for system components, including the DPI 620/G, MC 620/G, PM 620 modules, test leads, hose and adaptors.



## Spare/replacement lithium polymer rechargeable battery (P/N IO620-BATTERY)

Spare/replacement battery for the DPI 620/G. P/N IO620-BATTERY is supplied as standard with all new DPI 620/G.



## Battery charging station (P/N IO620-CHARGER)

This external battery charging station allows a spare battery to be charged independently of the DPI 620/G for minimum instrument down time. Power is provided by the standard mains adaptor (P/N IO620-PSU). A complete charge cycle takes approximately 6.5 hours. The charging station can be connected to a USB port to provide a top-up charge (full charge in 13 hours).



## Spare/replacement mains adaptor (P/N IO620-PSU)

A spare/replacement universal mains adaptor for use with DPI 620/G and P/N IO620-CHARGER. Input voltage 100 to 240 VAC 50/60 Hz. Mains socket adaptors are provided. P/N IO620-PSU is supplied as standard with all new DPI 620/G.



## USB cable (P/N IO620-USB-PC)

Connects the DPI 620/G to a PC.



## IDOS to USB converter (P/N IO620-IDOS-USB)

Allows connection of an IDOS universal pressure module to the DPI 620/G. P/N IO620-USB-PC is also required to connect the converter to the DPI 620/G USB port.



## USB to RS 232 cable (P/N IO620-USB-RS232)

Connects the DPI 620/G to an RS 232 interface.



# PV 621/G, 622/G, 623/G and MC 620/G Accessories

## Dirt moisture trap

Prevents contamination of the PV 621/G and 622/G pneumatic systems and cross contamination from one device under test to another. The IDT connects directly to the PV 621/G and 622/G pressure port and replicates the quick fit connection for compatibility with the hose and adaptor kits



**P/N IO620-IDT621:** Maximum working pressure 20 bar (300 psi)

**P/N IO620-IDT622:** Maximum working pressure 100 bar (1500 psi)

## Pressure relief valve

When fitted to a PV 62X/G pressure station protects the PM 620 pressure module and the device under test from overpressure.



## Relief Valve Table

| Part number  | For use with      | Factory setting |       | Adjustable range |               |
|--------------|-------------------|-----------------|-------|------------------|---------------|
|              |                   | bar             | psi   | bar              | psi           |
| IO620-PRV-P1 | PV 621/G PV 622/G | 1               | 15    | 0.2 to 1         | 3 to 15       |
| IO620-PRV-P2 | PV 621/G PV 622/G | 5               | 100   | 3 to 7           | 45 to 100     |
| IO620-PRV-P3 | PV 621/G PV 622/G | 30              | 435   | 16 to 32         | 230 to 460    |
| IO620-PRV-P4 | PV 622/G          | 60              | 870   | 30 to 60         | 435 to 870    |
| IO620-PRV-P5 | PV 622/G          | 100             | 1500  | 60 to 100        | 870 to 1500   |
| IO620-PRV-P6 | PV 621/G PV 622/G | 3               | 45    | 1.1 to 3         | 16 to 45      |
| IO620-PRV-P7 | PV 621/G PV 622/G | 12              | 170   | 6.1 to 12        | 90 to 170     |
| IO620-PRV-P8 | PV 621/G PV 622/G | 18              | 260   | 12.1 to 18       | 175 to 260    |
| IO620-PRV-H1 | PV 623/G          | 50              | 725   | 10 to 50         | 145 to 725    |
| IO620-PRV-H2 | PV 623/G          | 200             | 3000  | 50 to 200        | 725 to 2900   |
| IO620-PRV-H3 | PV 623/G          | 400             | 6000  | 200 to 400       | 2900 to 5800  |
| IO620-PRV-H4 | PV 623/G          | 700             | 10000 | 300 to 700       | 4350 to 10000 |
| IO620-PRV-H5 | PV 623/G          | 1000            | 15000 | 600 to 1000      | 8700 to 15000 |

## Pressure station carrying case (P/N IO620-CASE-3)

A protective carrying case with shoulder strap and large pocket for accessories. Also accommodates the assembled system including the DPI 620/G and PM 620.



## Modular system transit case (P/N IO620-CASE-4)

A rigid transit case with wheels and an extendable handle. Accommodates two PV 62X/G pressure stations, DPI 620/G, MC 620/G and PM 620 modules, with ample storage space for accessories. Size: 736 mm x 554 mm x 267 mm. Weight: 8,5 kg empty





## Pneumatic hose kit

A high pressure pneumatic hose rated to 400 bar (5800 psi). Tool less quick fit to the PV 621/G, PV 622/G and MC 620/G pressure ports. Terminated with a quick fit connector compatible with the test point adaptors supplied with the PV 62X/G, MC 620/G and the adaptor sets.



**P/N IO620-HOSE-P1:** 1 metre pneumatic hose kit

**P/N IO620-HOSE-P2:** 2 metre pneumatic hose kit

## Hydraulic hose kit

A high pressure hydraulic hose rated to 1000 bar (15000 psi). Tool less quick fit to the PV 623/G and MC 620/G pressure ports. Terminated with a quick fit connector compatible with the test point adaptors supplied with the PV 62X/G, MC 620/G and the adaptor sets.



**P/N IO620-HOSE-H1:** 1 metre hydraulic hose kit

**P/N IO620-HOSE-H2:** 2 metre hydraulic hose kit

## Pressure adaptor set

A set of test point adaptors to connect the tool less quick fit PV 62X/G, MC 620/G and the extension hoses to the device under test.



**P/N IO620-BSP:** G1/8 male and G3/4 male, G3/4 female, G3/8 female and G1/2 female

**P/N IO620-NPT:** 1/8" male and 1/4" male, 1/4" female, 3/8" female, and 1/2" female

**P/N IO620-MET:** 14 mm and 20 mm female



## Comparator adaptor (P/N IO620-COMP)

Allows the PV 62X/G pressure station to be used as a comparator. The adaptor connects to the stations pressure port and provides two outlet ports for making gauge comparisons. Compatible with the test point adaptors supplied with the PV 62X/G and the adaptor sets.



## Blanking plug (P/N IO620-BLANK)

Allows the PV 621/G and 622/G to be used as pressure generators independently of the DPI 620/G and PM 620 by blanking the PV 62X/G pressure module port. Not required for the PV 623/G as the port is self-sealing.



## DPI 104 Gauge adaptor (P/N IO620-104 ADAPT)

Allows a DPI 104 digital pressure gauge to be connected to the PV 62X/G pressure module port in place of DPI 620/G and PM 620 to provide a simple low cost pressure calibrator.





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