







DPI620G

Genii Advanced Modular Calibration System

Combines an advanced multi-function calibrator and HART/Foundation Fieldbus communicator with world-class pressure measurement and generation. ATEX, IECEx and ETL approved intrinsically safe versions are available for use in hazardous areas.



A flexible modular system

The Druck Advanced Modular Calibration System comprises of four system components to provide the multi-functionality to perform duties formerly requiring a wide range of different instruments. These system components are:

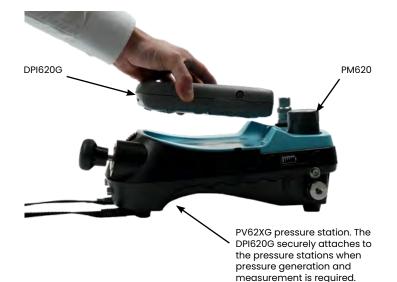
- DPI620G Multi-function or electrical calibrator, HART/ Fieldbus communicator
- PM620/PM620T Interchangeable pressure modules
- MC620G Pressure module carrier
- PV62XG Pressure generating base stations (including PV624 portable hybrid pressure controller base station)

Or for hazardous area:

- DPI620G-IS Intrinsically safe multi-function calibrator, HART/Fieldbus communicator
- PM620-IS Intrinsically safe interchangeable pressure modules
- MC620-IS Intrinsically safe pressure module carrier
- PV62X-IS Intrinsically safe pressure generating base stations

Features

- Multi-function capabilities: electrical, frequency, temperature and pressure
- Optional HART and Foundation Fieldbus communicators
- ATEX, IECEx and ETL approved for hazardous area use
- 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
- Provided with one free 4Sight2 Lite calibration software license
- *Bluetooth connectivity for wireless communication



Re-rangeable pressure measurement and generation from 25 mbar (10 in H_2O) to 1,000 bar (15,000 psi)







PM620(T) pressure module

Interchangeable pressure modules from 25 mbar (10 in H_2O) to 1000 bar (15000 psi).

MC620G pressure module carrier.

 Securely attaches to the DPI620G when single or dual pressure measurement is required.

DPI620G multifunction or electrical calibrator and communicator.

Measure and source mA, mV, V, ohms, frequency, RTDs and thermocouples

DPI 620 Genii advanced modular calibrator and HART/Foundation Fieldbus communicator

This ultra-compact basic electrical or electrical with 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.

Features

- · Multiple models to satisfy budget & application requirements
- High resolution touch display and UI (user interface) supporting gestures and swipes for a flatter menu structure and greater ease of use.
- HART and Foundation Fieldbus digital communication with complete device description libraries, internal modems and free of charge upgrades.
- ATEX and IECEx approved system for use in zone 1 and 2 classified hazardous areas.
- ETL approved for use in class I zone 1 hazardous locations.
- UI DASHBOARD to quickly launch applications such as CALIBRATOR, HART and Foundation Fieldbus.
- TASK menu allows single touch configuration for common devices such as pressure and temperature transmitters, transducers, switches, and valve positioners. Most used and user configured tasks can be added to FAVOURITES.
- Physical or *Bluetooth® wireless connection to a PV624 hybrid pressure controller base station.

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 (model dependant).
- Simulate device inputs and measure outputs simultaneously.
- · Calculates errors between inputs/outputs.
- Pressure system generates 100 bar/1,500 psi pneumatic and 1,000 bar/15,000 psi hydraulic pressures.
- Interchangeable pressure modules from 25 mbar/10 in $\rm H_{2}O$ to 1,000 bar/15,000 psi.

HART communicator - optional

- Measure and source analogue variables without secondary calibration equipment.
- No power during shutdown? Genii provides loop power 24 V or 28 V (Genii-IS series 15V).
- 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.

Documenting

• Data log up to six channels simultaneously.

Calibration Procedures

Test procedures can be created and stored using the autonomous "Calibration Wizard". A single test procedure template can be run on multiple assets with live pass/fail error analysis and results for each asset saved individually in the internal storage of the DPI620G that can be locally viewed or transferred to a PC to support traceability.

With the test results exported to a PC, the data can be sorted or Druck provides a Calibration Certificate template for pressure to electrical device calibrations which transforms the results into a formatted professional-look certificate ready for printing or filing.

Compatable with Calibration Management Software

4Sight2 is the new state-of-the-art, integrated, web-based calibration manager software

Maintains compliance with industry standards

- Provides a full-time and date stamped audit trail
- Significantly reduces your operating costs
- Provides automated paperless solutions
- Ensures that you are always ready for an audit
- Optional web hosting means no IT overhead

4Sight2 calibration and maintenance software gives you total control for all your calibration and maintenance tasks.

- Software
- Mobile solutions
- · Workshop solutions
- Global service

4Sight2 calibration management software will help you comply with regulations, reduce running costs and improve process efficiency. As your calibration manager, its automated workflow, robust data and complete traceability will significantly reduce calibration and maintenance costs.

Please visit druck.com/4sight2 for more information.

One free 4Sight2 Lite license is provided free of charge with each DPI620 Genii Hand-held Pressure Calibrator.

Technical specifications

DPI620G general specifi	
Processor and memory	800 MHz processor
	512 MB 800 MHz SDRAM
	4 GB internal flash memory
	8 GB removable microSD card - provided as standard (accepts cards up to 32 GB)
Display	Size: 110 mm (4.3 in) diagonal; 480 x 800 pixels
	LCD: Color display with touch-screen
	Protected by 2 mm toughened glass, impact tested in accordance with BS EN 61010-1:2010 (0.5 kg object from 1 m)
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 and UKCA Marked
Size (L: W: H)	183 x 114 x 42 mm (7.2 x 4.5 x 1.7 in)
Weight	575 g (1.3 lb) – battery included
Power supply	Lithium-polymer battery (Druck part number: IO620-Battery); Capacity: 4600 mAh (minimum), 4800 mAh (typical); Nominal voltage: 3.7 V. Charge temperature: 0° to 45°C (32° to 113°F) Discharge temperature: -10° to 50°C (14° to 122°F). Note: 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, Bluetooth [®] (B1 model)

Intrinsically safe DPI620G-IS general specifications for hazardous area use

Processor and memory	800 MHz Processor
	512 MB 800 MHz SDRAM
	8 GB internal flash memory
Display	Size: 110 mm (4.3 in) diagonal; 480 x 800 pixels
	LCD: Color display with touch-screen
	Protected by 2 mm toughened glass, impact tested in accordance with BS EN 61010-1:2010 (0.5kg object from 1 m)
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	IP54
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)
Approval	CE and UKCA Marked
	ATEX and IECEx intrinsically safe: (€x) II 2G Ex ib IIC T4 Gb (-10°C ≤ Ta ≤ +50°C)
	ETL intrinsically safe (US and Canada): Class I, Zone 1, AEx/Ex ib IIC T4 Gb (-10°C ≤ Ta ≤ +50°C)
Size (L: W: H)	183 x 114 x 55 mm (7.2 x 4.5 x 2.2 in)
Weight	1.1 kg (2.4 lb) - battery included
Power supply	Lithium-ion battery (Druck part number: 10620G-IS-BATTERY); Capacity: 4000 mAh. Nominal voltage: 3.65 V. Charge temperature: 0° to 45°C (32° to 113°F) Discharge temperature: -10° to 50°C (14° to 12°F). Charge/discharge cycles: > 500 > 70% capacity.
	Safe area charging only using external charger IO620G-IS-CHARGER and universal mains adaptor IO620-PSU. The battery is detached from the instrument using two thumb screws and mounted on the charger.
	The battery can be taken into a hazardous area without being connected to an instrument and can be attached and detached in the hazardous area. The battery has an LED indicator to show the charge state of the battery without having to turn the instrument on or when it is not attached to an instrument
Duration	Measure functions (CH1): ≈ 7 hours continuous. Dual function, mA measure (CH2): ≈ 5 hours (Loop enabled at 12 mA)
Connectivity	USB Type Mini B (client)

	surement and source			Total upcortainty		Additional	orror	Popolution	Display reading	
		NLH&R ¹ ±1°C (2°F) for 24	hrs (note 2)	Total uncertainty 10° to 30°C (50° to (note 3)			error C (14° to 50°F) C (86° to 122°F)	Resolution	windov	
		%Rdg	+ %FS	%Rdg	+ %FS	%Rdg/°C	+ %FS/°C			
leasure mod	e									
C voltage	Thermocouple	Please refer to th	ermocouple specifi	cation table					CH1	
	TC mode -10 to 100 mV	0.0045	0.008	0.007 (0.009)	0.01	0	0.0005	0.001	CH1	
	+/- 200 mV	0.0045	0.004	0.01	0.005	0	0.0005	0.001	CHI	CH2
	+/- 2000 mV	0.004	0.003	0.0095 (0.01)	0.005	0	0.0005	0.01	CHI	CH2
	+/- 20 V	0.0025	0.002	0.0145	0.002	0	0.0005	0.00001	CH1	CH2
	+/- 30 V	0.0035	0.0035	0.0145	0.004	0	0.0005	0.0001	CH1	CH2
AC voltage (note 1) not	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	СНІ	
DPI620G-H or DPI620G-IS	0 to 300 VAC	1	0.06	1.5	0.1	0.05	0.005	0.01	CHI	
	+/- 20 mA	0.006	0.005	0.012 (0.016)	0.006 (0.0065)	0	0.0005	0.0001	CHI	CH2
	+/- 55 mA	0.005	0.005	0.016 (0.019)	0.005 (0.006)	0	0.0005	0.0001	CHI	CH2
esistance	RTD		D specification tab		()				CHI	
True, 4 wire)	0 to 400 Ω	0.0055 (0.006)	0.001 (0.002)	0.009	0.0012	0	0.0005	0.001	CHI	
	0 to 4000 Ω	0.0055 (0.006)	0.001 (0.002)	0.009	0.0012	0	0.0005	0.01	CHI	
								0.01		
	RTD	Please refer to R	D specification tab	le					CH1	
	0 to 400 Ω	0.012	0.005	0.015	0.006	0	0.001	0.001	CH1	
РI620G-В,	0 to 4000 Ω	0.0115	0.0045	0.015	0.006	0	0.001	0.01	CHI	
	0 to 1000 Hz	0.0003	0.0002	0.003	0.0002			0.0001	CH1	
not applicable to DPI620G-B,	1 kHz to 50 kHz (5 kHz)	0.0003	0.0004	0.003	0.0004			0.00001	CH1	
	0 to 999999 CPM	Refer to range to	ble above for equiv	alent frequency				0.01	CHI	
PI620G-H	0 to 999999 CPH	Refer to range to	ble above for equiv				0.01	CHI		
	Trigger level	Automatic and a	idjustable 0 to 20 V				0.1			
	Trigger level	Automatic or mo	Automatic or manual setting 0 to 20 V					0.1		
ressure	25 mbar to 1000 bar	Please refer to Pl	A 620 pressure rang	je table					P1	P2
		Please refer to ID	OS UPM datasheet.	Cable P/N 10620-1D	OS-USB required				IDOS	
JSB port		Please refer to D	ruck for compatible	devices					USB	
ource mode										
	TC mode	Please refer to th	ermocouple specifi	cation table						
	TC mode -10 to 100 mV	0.009	0.008	0.014	0.01	0	0.0005	0.001	CH1	
Рі620G-В,	0 to 200 mV	0.0045	0.004	0.01	0.005	0	0.0005	0.1	CHI	
AC voltage note 1) not applicable to PPI620G-B, PPI620G-IS versions Current Resistance True, 4 wire) not applicable o DPI620G-B, PPI620G-H Resistance 4 wire) not applicable to PPI620G-B, PPI620G-B, PPI620G-H Resistance Corresternal DOS external DOS external DPI620G-B, DPI620G-H Current	0 to 2000 mV	0.004	0.003	0.009	0.005	0	0.0005	0.1	CHI	
	0 to 20 V (12 V) @ 3 mA max.	0.006	0.002 (0.0035)	0.0145 (0.015)	0.002 (0.004)	0	0.0005	0.001	СНІ	
Current	0.2 to 24 mA with ext. loop power 0.2 to 24 mA with int.	0.01	0.004	0.015	0.005	0	0.0005	0.001	CHI	СН
	loop power Internal loop power	0.01		±10%; 100Ω output i		0	0.0005	0.001		Сп.
esistance ²	RTD	Please refer to P	D specification tab	•					CHI	
ot	0 to 400 Ω (0.1 mA)	0.024 (0.026)	0.0035 (0.0045)	0.03 (0.035)	0.0075 (0.012)	0	0.001	0.01	CHI	
pplicable to	0 to 400 Ω (0.5 mA)	0.004	0.0025	0.008	0.003	0	0.001	0.01	CHI	
	400 to 2000 Ω (0.05 mA)	0.048	0.0035	0.06	0.006	0	0.001	0.01	СНІ	
	$2 \text{ k to } 4 \text{ k}\Omega (0.05 \text{ mA})$	0.048	0.0035	0.06	0.0045	0	0.001	0.01	CHI	
	Maximum input current		0.0035 00-2000 Ω 1mA, 2000		0.0040	U	0.001	0.01		
requeres	0 to 1000 Hz	0.0003	0.00023	0.003	0.00023			0.1	CHI	
	1 kHz to 50 kHz (5 kHz)	0.0003	0.00023	0.003	0.00023			0.001	CHI	
pplicable to						vod)		0.001	СНІ	
	Output waveform Square wave peak output	Sine and Triangu		litude and offset wit	ive swing -120 mV (fi hin the limits -2.5 (-0		+12 V)			
	square wave peak output									
	0 to 99999 CPM	Please refer to ro	inde table above fo	r pauivalent froguer				1	CH1	

Notes:

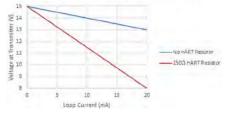
The DPI620G-B/H models support electrical single channel function only. Values in () apply to DPI620G-IS models

- 1. Specification applies, 45 to 65 Hz and between 10% and 100% of full scale
- 2. Specification applies when calibration temperature is between 10 and 30 $^{\circ}\mathrm{C}$
- 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 (5 for IS versions) simultaneous reading windows as follows: CH1, CH2, P1, P2, IDOS (not IS versions), HART/Fieldbus)

DPI620G-IS models - Internal Loop Power Supply



"True Ohms" RTD measure mode (4-wire)									
Туре	Temperature coefficient	Temperatu	ire range			Total unce 10° to 30°C	Total uncertainty 10° to 30°C (50° to 86°F) for 1 year		
		°C		٩F		Rdg	Tos		
		From	То	From	То	%	°C	٩F	
Pt 50	3.85	-200	850	-328	1562	0.012	0.05	0.09	
Pt 100	3.85	-200	850	-328	1562	0.012	0.04	0.07	
Pt 100	3.92	-200	850	-328	1562	0.012	0.04	0.07	
Pt 200	3.85	-200	260	-328	500	0.01	0.03	0.051	
		260	850	500	1562	0.15	0.077	0.14	
Pt 500	3.85	-200	-60	-328	-76	0.01	0.026	0.044	
		-60	0	-76	32	0.015	0.05	0.086	
		0	850	32	1562	0.012	0.05	0.086	
Pt 1000	3.85	-200	-150	-328	-238	0.009	0.024	0.04	
		-150	0	-238	32	0.011	0.036	0.061	
		0	850	32	1562	0.012	0.036	0.061	
Cu 10	4.27	-200	0	-328	32	0	0.14	0.25	
		0	260	32	500	0	0.17	0.3	
D 100	6.18	-200	0	-328	32	0.01	0.035	0.06	
		0	640	32	1184	0.012	0.035	0.06	
Ni 100	6.72	-60	0	-76	32	0	0.026	0.047	
		0	250	32	482	0	0.03	0.055	
Ni 120	6.72	-80	0	-112	32	0	0.022	0.04	
		0	270	32	518	0	0.028	0.05	
		270	320	518	608	0	0.057	0.1	

Standard RTD measure mode (4-wire)										
Туре	Temperature coefficient	Temperatur	e range			Total uncert 10° to 30°C (Total uncertainty 10° to 30°C (50° to 86°F) for 1 year			
		°C		٩F	٩F		Tos			
		From	То	From	То	%	°C	٥F		
Pt 50	3.85	-200	850	-328	1562	0.021	0.16	0.28		
Pt 100	3.85	-200	0	-328	32	0.017	0.1	0.175		
		0	850	32	1562	0.0215	0.1	0.174		
Pt 100	3.92	-200	0	-328	32	0.017	0.1	0.175		
		0	850	32	1562	0.0215	0.1	0.174		
Pt 200	3.85	-200	0	-328	32	0.017	0.069	0.12		
		0	260	32	500	0.018	0.069	0.12		
		260	850	500	1562	0.033	0.33	0.6		
Pt 500	3.85	-200	-60	-328	-76	0.0165	0.051	0.09		
		-60	0	-76	32	0.017	0.16	0.29		
		0	850	32	1562	0.024	0.16	0.28		
Pt 1000	3.85	-200	-150	-328	-238	0.016	0.044	0.074		
		-150	0	-238	32	0.018	0.1	0.175		
		0	850	32	1562	0.0215	0.1	0.174		
Cu 10	4.27	-200	0	-328	32	0.035	0.66	1.18		
		0	260	32	500	0.01	0.66	1.18		
D 100	6.18	-200	0	-328	32	0.019	0.1	0.174		
		0	640	32	1184	0.02	0.1	0.174		
Ni 100	6.72	-60	0	-76	32	0	0.071	0.13		
		0	250	32	482	0.002	0.071	0.13		
Ni 120	6.72	-80	270	-112	518	0	0.06	0.11		
		270	320	518	608	0	0.2	0.36		

Туре	Temperature coefficient	Temperatu	ire range			Total uncertain 10° to 30°C (50°	ity to 86°F) for 1 yea	r
		°C		٩F		Rdg	Tos	
		From	То	From	То	%	°C	°F
Pt 50	3.85	-200	850	-328	1562	0.043 (0.052)	0.24 (0.35)	0.42 (0.63)
Pt 100	3.85	-200	850	-328	1562	0.04 (0.047)	0.16 (0.22)	0.28 (0.40)
Pt 100	3.92	-200	850	-328	1562	0.04 (0.047)	0.16 (0.22)	0.28 (0.40)
Pt 200	3.85	-200	260	-328	500	0.0345 (0.041)	0.12 (0.16)	0.21 (0.29)
		260	850	500	1562	0.087	0.28	0.50
Pt 500	3.85	-200	-60	-328	-76	0.33 (0.038)	0.095 (0.12)	0.169 (0.22)
		-60	850	-76	1562	0.078	0.23	0.41
Pt 1000	3.85	-200	-150	-328	-238	0.32 (0.037)	0.085 (0.11)	0.15 (0.20)
		-150	260	-238	500	0.0675	0.19	0.34
		260	850	500	1562	0.082	0.17	0.31
Cu 10	4.27	-200	260	-328	500	0	0.85 (1.40)	1.53 (2.52)
D 100	6.18	-200	640	-328	1184	0.38 (0.046)	0.16 (0.22)	0.28 (0.40)
Ni 100	6.72	-60	250	-76	482	0	0.12 (0.16)	0.22 (0.29)
vi 120	6.72	-80	270	-112	518	0	0.11 (0.14)	0.20 (0.25)
		270	320	518	608	0	0.25	0.45

Notes:

These figures relate to DPI 620 Genii uncertainties only values in () apply to DPI620G-IS models. Not applicable to the DPI620G-B or DPI620G-H.

For RTD measure and source functions the uncertainty is given by:

Urtd = T(°C) x %Rdg + Tos (°C)

or Urtd = T(°F) x%Rdg + Tos (°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 400 Ω 2.5 mA, 400 Ω to 4000 Ω 0.5 mA;

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

Simulate mode pulsed excitation current minimum duration 10 ms

Туре	Standard	Temperature	e range			Measurement	Measurement Simulation		
						Total uncertainty 10° to 30°C (50° to 86°F) for 1 year			
		°C		٩F		°C	٩F	°C	٩F
		From	То	From	То				
3	IEC 584	250.00	500.00	482.00	932.00	4.00	7.20	4.00	7.20
		500.00	700.00	932.00	1,292.00	2.00	3.60	2.00	3.60
		700.00	1,200.00	1,292.00	2,192.00	1.50	2.70	1.50	2.70
		1,200.00	1,820.00	2,192.00	3,308.00	1.00 (1.10)	1.80 (1.98)	1.10	1.98
	IEC 584	-270.00	-200.00	-454.00	-328.00	2.00	3.60	2.00	3.60
		-200.00	-120.00	-328.00	-184.00	0.50	0.90	0.50	0.90
		-120.00	1,000.00	-184.00	1,832.00	0.25	0.45	0.30	0.54
J	IEC 584	-210.00	-140.00	-346.00	-220.00	0.50	0.90	0.50	0.90
		-140.00	1,200.00	-220.00	2,192.00	0.30	0.54	0.40	0.72
<	IEC 584	-270.00	-220.00	-454.00	-364.00	4.00	7.20	4.00	7.20
		-220.00	-160.00	-364.00	-256.00	1.00	1.80	1.00	1.80
		-160.00	-60.00	-256.00	-76.00	0.50	0.90	0.50	0.90
		-60.00	800.00	-76.00	1,472.00	0.30 (0.40)	0.54 (0.72)	0.40	0.72
		800.00	1,370.00	1,472.00	2,498.00	0.50	0.90	0.60	1.08
	DIN 43710	-200.00	-100.00	-328.00	-148.00	0.40	0.72	0.40	0.72
		-100.00	900.00	-148.00	1,652.00	0.25	0.45	0.30	0.54
1	IEC 584	-270.00	-200.00	-454.00	-328.00	7.00	12.60	7.00	12.60
		-200.00	-40.00	-328.00	-40.00	1.00	1.80	1.00	1.80
		-40.00	1,300.00	-40.00	2,372.00	0.40	0.72	0.50	0.90
२	IEC 584	-50.00	360.00	-58.00	680.00	3.00	5.40	3.00	5.40
		360.00	1,760.00	680.00	3,200.00	1.00	1.80	1.10	1.98
S	IEC 584	-50.00	70.00	-58.00	158.00	3.00	5.40	3.00	5.40
		70.00	320.00	158.00	608.00	1.50	2.70	1.50	2.70
		320.00	660.00	608.00	1,220.00	1.10	1.98	1.20	2.16
		660.00	1,740.00	1,220.00	3,164.00	1.00 (1.10)	1.80 (1.98)	1.20	2.16
г	IEC 584	-270.00	-230.00	-454.00	-382.00	3.00	5.40	3.00	5.40
		-230.00	-50.00	-382.00	-58.00	1.00	1.80	1.00	1.80
		-50.00	400.00	-58.00	752.00	0.30	0.54	0.30	0.54
J	DIN 43710	-200.00	-50.00	-328.00	-58.00	0.60	1.08	0.60	1.08
		-50.00	600.00	-58.00	1,112.00	0.30	0.54	0.30	0.54
>		0.00	1,600.00	32.00	2,912.00	0.80 (0.90)	1.44 (1.62)	1.00	1.80
		1,600.00	2,000.00	2,912.00	3,632.00	1.00 (1.10)	1.80 (1.98)	1.20	2.16
		2,000.00	2,300.00	3,632.00	4,172.00	1.40 (1.50)	2.52 (2.70)	1.70	3.06
)		0.00	100.00	32.00	212.00	1.10	1.98	1.10	1.98
		100.00	270.00	212.00	518.00	0.80	1.44	0.80	1.44
		270.00	1,200.00	518.00	2,192.00	0.60 (0.70)	1.08 (1.26)	0.70	1.26
		1,200.00	1,800.00	2,192.00	3,272.00	0.80 (0.90)	1.44 (1.62)	1.00	1.80

Values in () apply to DPI620G-IS models

Not applicable to the DPI620G-B or DPI620G-H

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

PM620 & PM620T pressure modules

Features

- Fully interchangeable with no need for set-up or calibration
- · Simple screw fit hand tight no tools required
- Safe and hazardous area versions available

The PM620 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 characterization allows interchangeability without set-up or calibration.

The PM620T in addition incorporates our unique range of TERPS resonant silicon pressure sensor technology. Providing up to four times greater stability and higher accuracy.

PM620

- Ranges from 25 mbar to 1,000 bar (10 inH2O to 15,000 psi)
- Total uncertainty from 0.025% FS

PM620T

- Ranges from 1.2 bar abs to 100 bar abs (17.5 psi abs to 1500 psi abs)
- Total uncertainty from 0.0125% FS

MC620G module carrier

Features

- · 2 independent pressure channels
- Simple to re-range
- Pressure protection
- Safe and hazardous area versions available

The MC620 module carrier attaches to the head of the DPI620 to provide two independent pressure measurement channels. These can be fitted with any PM620/PM620T pressure module from 25 mbar to 1,000 bar (10 inH2O to 15,000 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.

MC620G specification							
Maximum pressure	400 bar (5,800 psi) pneumatic 1,000 bar (15,000 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						
MC620-IS specification (where different to MC620G)							





PM620 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; 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,
	106 g maximum

Gauge ranges (referenced to atmosphere)

		Media	NLH&R	NLH&R	Total uncertainty
			20°C ± 2°C (68°F ± 4°F)	0° to 50°C (32° to 122°F)	0° to 50°C (32° to 122°F)
			24 hr	24 hr	for 1 year
			Gauge	Gauge	Gauge
bar	psi		%FS	%FS	%FS
±0.025	±10 inH ₂ O	1	0.090	0.090	0.100
±0.07	±1	1	0.025	0.030	0.047
±0.1	±1.45	1	0.020	0.027	0.045
±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 1,000	2	0.005	0.020	0.025
0 to 100	0 to 1,500	2	0.005	0.020	0.025
0 to 135	0 to 2,000	2	0.005	0.020	0.025
0 to 200	0 to 3,000	2	0.005	0.020	0.025

PM620-IS Pressure module specification (where different from PM620)

Approval CE and UKCA Marked

ATEX & IECEx intrinsically safe: (fx) II 1G Ex ia IIC T4 Ga (-10°C \leq Ta \leq +50°C)

ETL intrinsically safe (US and Canada): Class I, Zone I, AEx/Ex ia IIC T4 (–10°C \leq Ta \leq +50°C)

NLH&R non-linearity, hysteresis and repeatability

- Compatible with non-corrosive gas/fluid
- Compatible with stainless steel

*The reading can be referenced to ambient air pressure via a software feature of the DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement.

DPI620 Genii pressure resolution: adjustable 4 to 7 digits. Uncertainty confidence level 95% (K=2)

Absolute ranges (referenced to vacuum)									
		Media	NLH&R 20°C ± 2°C (68°F ± 4°F) 24 hr	NLH&R 20°C ± 2°C (68°F ± 4°F) 24 hr	NLH&R 0° to 50°C (32° to 122°F) 24 hr	NLH&R 0° to 50°C (32° to 122°F) 24 hr	Total uncerta 0° to 50°C (32° to 122°F) for 1 year	inty	
			Absolute	*Sealed gauge	Absolute	*Sealed gauge	Absolute	*Sealed gauge	
bar	psi		%FS	%FS	%FS	%FS	%FS	%FS	
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 1,000	2	0.015	0.005	0.030	0.020	0.047	0.025	
0 to 100	0 to 1,500	2	0.015	0.005	0.030	0.020	0.046	0.025	
0 to 135	0 to 2,000	2	0.015	0.005	0.030	0.020	0.046	0.025	
0 to 200	0 to 3,000	2	0.015	0.005	0.030	0.020	0.046	0.025	
0 to 350	0 to 5,000	2	0.015	0.005	0.033	0.020	0.049	0.025	
0 to 700	0 to 10,000	2	0.015	0.005	0.033	0.020	0.049	0.025	
0 to 1000	0 to 15,000	2	0.015	0.005	0.033	0.020	0.049	0.025	

PM620 TERPS specification			
Maximum working pressure	110% FS	Approval	CE and UKCA Marked
Sealing	IP 65 (protected against dust and jets of water)	Size and weight	L. 56 mm, Dia. 44 mm, 106 g maximum
Operating temperature	-10 to 50°C (14 to 122°F)	RoHS	Compliant
Storage temperature	-20 to 70°C (-4 to 158°F)	Orientation stability	<0.2 mbar/g
Humidity	0 to 90% RH non condensing	Media compatibility	Media to be compatible with stainless steel
Shock and vibration	BS EN 61010-1 MIL-PRF-28800F for Class II equipment, 1 m drop tested	Resolution	Selectable - 4 to 7 digits
EMC	BS EN 61326-1	Uncertainty confidence level	95% (k=2)
Electrical safety	BS EN 61010-1		
Pressure safety	Pressure equipment directive class SEP		

Uncertainty			
Pressure range (absolute)	NLHR @ 25°C (% FS)	NLHR @ -10°C to 50°C (% FS)	Total uncertainty @ -10°C to 50°C (% FS)
1.2 bar	0.006%	0.013%	0.020%
2 bar	0.004%	0.008%	0.0125%
7 bar	0.004%	0.008%	0.0125%
20 bar	0.004%	0.008%	0.0125%
35 bar	0.004%	0.008%	0.0125%
70 bar	0.004%	0.008%	0.0125%
100 bar	0.004%	0.008%	0.0125%

Hazardous area approvals										
Approval	Baseefa 16ATEX0012X IECEx BAS 10.0004X Ex II 1 G Ex ib IIC T4 Gb (-10 ≤ Ta ≤ +50°C)									
EN60079-0	Electrical apparatus for potentially explosive atmospheres - general requirements.									
EN60079-11	Electrical apparatus for potentially explosive atmospheres - intrinsic safety 'i'.									

Notes

 The reading can be referenced to ambient air pressure via a software feature of the DPI620 Genii, allowing the same module to be switched between absolute and sealed gauge measurement.

2. NLH&R Non-linearity, hysteresis and repeatability to reference standard.

3. Total uncertainty includes reference standard uncertainty, NLHR over specified range and 1 year drift.

The PV621, 622 and 623 manual pressure generating base stations

Features

- · A uniquely capable, re-arrangeable and self-contained pressure test system
- Advanced pressure generation
 - 95% vacuum to 20 bar (300 psi) pneumatic
 - 95% vacuum to 100 bar (1,500 psi) pneumatic
 - 0 to 1000 bar (15,000 psi) hydraulic
- Stand-alone replacements for hand pumps
- · Bench top use as comparators
- · Safe and hazardous area versions available

There are three pressure generation stations: the PV621, a pneumatic pressure generator for pressures 95% vacuum to 20 bar (300 psi); the PV622, a pneumatic pressure generator for pressures 95% vacuum to 100 bar (1,500 psi); and the PV623, a hydraulic pressure generator for pressures up to 1,000 bar (15,000 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.

PV621G, PV622G and PV6	23G specification				
Maximum pressure	PV621G 20 bar (300 psi) pneumatic				
	PV622G 100 bar (1,500 psi) pneumatic				
	PV623G 1,000 bar (15,000 psi) hydraulic				
Pressure media	PV621G and PV622G non-corrosive gases, PV623G de-mineralized water or mineral oil (ISO viscosity grade < 22)				
Operating temperature	-10° to 50°C (14° to 122°F)				
	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				
Approval	CE and UKCA Marked				
Size and weight	450 mm x 280 mm x 235 mm,				
	PV62IG 2.65 kg, PV622G 3.30 kg, PV623G 3.75 kg				

PV621-IS, PV622-IS and PV623-IS specification (where different from above table)								
Maximum pressure PV621-IS 20 bar (300 psi) pneumatic								
	PV622-IS 100 bar (1,500 psi) pneumatic							
	PV623-IS 1,000 bar (15,000 psi) hydraulic							
Operating temperature	-10 to 40°C (14 to 104°F)							
Approval	CE and UKCA Marked							
	ATEX and IECEx intrinsically safe: (Ex) II 2G Ex ia IIC T4 Gb (-10°C \leq Ta \leq +40°C)							
	ETL intrinsically safe (US and Canada): Class I, Zone 1, AEx/Ex ia IIC T4 (-10°C ≤ Ta ≤ +40°C)							



PV622G

PV624 hybrid pressure controller base station

The PV624 is a portable hybrid pressure controller base station that combines the advantages of manual pressure generation with fully automatic pressure generation and control.

By utilising interchangeable PM620/PM620T pressure modules and connecting physically or *wirelessly via Bluetooth® with any Bluetooth® **DPI620G electrical calibrator creates a uniquely capable, flexible, self-contained portable hybrid pressure controller

The PV624 automatically selects between fast high volume manual pressure generation and fully automatic precise pressure generation to quickly achieve and accurately maintain a stable setpoint.

To achieve a fast time to up-scale pressure set points (or down-scale pressure set points for negative pressure ranges), the hand pump is requested by the PV624 to be exercised for a portion of the pressure change before automatically isolating the hand pump and seamlessly engaging fully automatic pressure generation to set point.

Down-scale pressure set points (or up-scale pressure set points for negative pressure ranges) are quickly achieved with automatically controlled venting.

Once at set point the PV624 automatically generates and controls the pressure to combat the effect of adiabatic or minor leaks.

Features

- In built barometer to enable accurate pseudo pressure ***
 measurements.
- Hybrid pressure generation and control from -0.9barg (-13psig) to 20barg (300psig).
- Automatic selection of manual pressure generation, automatic pressure generation or pressure venting with large test volume capability.
- Fully automatic pressure generation and control to accurately maintain setpoint.
- Minimise in-the-field leaks with quick-fit pressure adapters.
- Physical or *Bluetooth[®] wireless connection to a DPI620G electrical calibrator.
- In-the-field rechargeable battery pack replacement



PV624 specifications

Range and Performance

Hybrid pressure control range

-0.9barg (-13 psig) to 20barg (300 psig)

Compatible PM620 & PM620T (FS) pressure ranges

Gauge ranges: 0.7bar(10psi), 1bar(15psi), 2bar(30psi), 3.5bar(50psi), 7barg(100psi), 10barg(150psi), 20barg(300psi).

Absolute ranges: 2bar(30psi), 3.5bar(50psi), 7bar(100psi), 10bar(150psi), 20bar(300psi).

Maximum over range pressure (without damage) 120%FS

Barometer pressure measurement range

800-1100 mbar abs

Barometer total uncertainty (24hr) <0.5mbar

Barometer drift/year <0.33mbar/yr typical

Pressure control stability

50ppm of PM620 Full Scale

Speed to stable set point

0 barg to 2barg(30psig) +/-50ppm into 15ml volume <15sec

0 barg to 20barg(300psig) +/-50ppm into 50ml volume <90sec

Maximum compensated external leak rate at 20barg (300psig) with 50mL volume 60mbar/min

Combining any of the pressure base stations with a PM620 or PM620T pressure module and the DPI620G calibrator creates a uniquely capable, self-contained pressure calibrator.

***pseudo selection only available for PM620 1 bar/15psi gauge full-scale ranges or above and for 2bar/30psi absolute full-scale ranges and above.

^{**}Safe area models, e.g. DPI620G/L/PB/FF/FFPB, MC620G, PV621/2/3G, PV624 and PM620/T are not compatible with intrisically safe models, e.g. DPI620G-IS, PM620/T-IS, MC620-IS, PV621/2/3-IS and intrinsically safe models are not compatible with safe area models

PV624 General Specification

Operating temperature 0 to +50 deg. C Storage temperature -20 to +70 deg. C Ingress protection IP54 Humidity Up to 95% non-condensing Shock/vibration As per MIL-PRF-28800F (Class II equipment) Altitude Up to 3000m EMC: CE and UKCA approved IEC61326-1 **Electrical safety:** CE and UKCA approved IEC61010 Pressure safety: CE and UKCA approved Sound Engineering Practice **Test volume materials** Suitable for air

Approvals CE marked, UKCA marked Size (excl DPI620) (L) 343mm/13.5" x (W) 192mm/7.6" x (H) 136mm/5.4" Weight (excl DPI620) 3.4Kg/7.5lb **Power supply** 15V, 2A (30W) Battery life (from 100% charge) Min 8hrs continuous usage (typical) Battery charge time 8hrs Service >5000 pressure cycles Power failure protection System lock and manual vent valve feature provided Connectivity USB client micro-USB (+Bluetooth® low energy for Bl option) **Pressure connection** Quick fit with G1/8 female + 1/8 NPT female adapter

Ordering information

Systems for safe area use**

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

Model	Description	Bluetooth Connec- tivity	Measure Pressure Via PM620 & MC620/ PV62X	USB Sensors: Pressure & RTD	IDOS Pressure Sensors	Measure mA, mV, V	Source m4	24/28V Loop Power	Source mV, V	Measure/ Source Frequency	Measure/ Source Resistance	Measure/ Source Temp (RTD/TC)	Multi channel ^A for simul- taneous Measure- ment/ Source	External AC Voltage Probe	HART	Profibus	Fieldbus
DPI620G-B	Electrical Calibrator		•	•	•	•	•	•					•				
DPI620G-B-B1	Electrical Calibrator with Bluetooth	•	•	•	•	•	•	•					•				
DPI620G-H	Electrical Calibrator & HART com- municator		•	•	•	•	•	•					•		•		
DPI620G-H-B1	Electrical Calibrator & HART com- municator with Bluetooth	•	•	•	•	•	•	•					•		•		
DPI620G-L	Multifunction Calibrator		•	•	•	•	•	•	•	•	•	•	•	•			
DPI620G-L-BI	Multifunction Calibrator with Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•			
DPI620G	Multifunction Calibrator & HART communicator		•	•	•	•	•	•	•	•	•	•	•	•	•		
DPI620G-BI	Multifunction Calibrator & HART communicator with Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
DPI620G-PB	Multifunction Calibrator & HART communicator with Profi Bus		•	•	•	•	•	•	•	•	•	•	•	•	•	•	
DPI620G-PB-B1	Multifunction Calibrator & HART communicator with Profi Bus & Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
DPI620G-FF	Multifunction Calibrator & HART communicator with Fieldbus		•	•	•	•	•	•	•	•	•	•	•	•	•		•
DPI620G-FF-B1	Multifunction Calibrator & HART communicator with Fieldbus & Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•		•
DPI620G-FFPB	Multifunction Calibrator & HART communicator with Profi Bus & Fieldbus		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
DPI620G-FF- PB-B1	Multifunction Calibrator & HART communicator with Profi Bus, Field- bus & Bluetooth	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

The DPI620G are supplied with a rechargeable lithium polymer battery P/N IO620-BATTERY, universal mains adaptercharger P/N IO620-PSU, P/N IO620-AC 300 VAC true rms measurement probe (IO620-AC not supplied with the DPI620G-B or DPI620G-H), test leads calibration certificate, and quick reference guide.

▲ The DPI620G-B/H models have multifunction capability only when measuring/sourcing pressure or with the USB RTD.

Model MC620G

Genii pressure module carrier

Supplied with G 1/8 female and 1/8 NPT female adapters (2 of each).

Model PM620 or PM620T "pressure range" and "type"

Pressure module supplied with calibration certificate. Please state model number, pressure range and type gauge or absolute e.g., PM620 20 bar (300 psi) gauge (see page 10 & 11 for pressure ranges).

Model PV621G

Pneumatic pressure generation base station vacuum to 20 bar (300 psi)

Model PV622G

Pneumatic pressure generation base station vacuum to 100 bar (1,500 psi)

Model PV623G

Hydraulic pressure generation base station 0 to 1,000 bar (15,000 psi)

Model PV624-B0 or PV624-B1 (-B1 model has additional *Bluetooth connectivity)

Hybrid pressure controller base station, from vacuum to 20 bar (300 psi).

The PV621G, 622G, 623G and 624 are supplied with G1/8 female and 1/8 NPT female adapters carry strap, and quick reference guide. The PV623G in addition includes a plastic refill bottle for hydraulic fluid. The PV624 includes AC power supply, rechargeable battery pack and dirt moisture trap.



Accessories for safe area use**

(P/N IO620-BATTERY) DPI620G Spare/rechargeable lithium polymer battery (not compatible with DPI620G-IS models)

(P/N IO620-PSU) DPI620G Spare/replacement universal mains adapter. Input voltage 100 to 240 VAC 50/60 Hz Mains socket adapters are provided.

(P/N IO620-CHARGER) DPI620G Battery charging station

External battery charging station allows a spare battery to be charged independently of the DPI620G for minimum

instrument down time. Power is provided standard mains adaptor (P/N 10620-PSU complete charge cycle takes approxima 6.5 hours. The charging station can be connected to a USB port to provide a top-up charge (full charge in 13 hours).



(P/N IO624-Battery) Rechargeable PV62 battery pack

A spare battery pack that can be easily exchanged in the field

(P/N IO624-CHGR-KIT-UK) PV624 external desktop battery charger

External charger for the PV624 battery pack with UK Plug

(P/N IO624-CHGR-KIT-EU) PV624 external desktop battery charger

External charger for the PV624 battery pack with EU Plug

(P/N IO624-CHGR-KIT-US) PV624 external desktop battery charger

External charger for the PV624 battery pack with US Plug

(P/N IO624-CHGR-KIT-AU) PV624 external desktop battery charger

External charger for the PV624 battery pack with Australia Plug

Add (P/N IO624-CHGR-KIT-CN) PV624 external desktop battery charger

External charger for the PV624 battery pack with China Plug

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

Attaches to the DPI620G, 30 V sockets to provide 300 VAC true rms measurement. Is supplied as standard with all new DPI620G.

(P/N IO620-CASE-1) DPI620G carrying case

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

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

Protective carrying case for system components including the DPI620G,

MC620G, PM620 modules, test leads, hose and adapters.

Connects the DPI620G or DPI620G-IS to a PC

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

Allows connection of an IDOS universal pressure module to the DPI620G. P/N IO620-USB-PC is also required to connect the converter to the DPI620G USB port. (not compatible with DPI620G-IS)

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

Connects the DPI620G to an RS 232 interface (not compatible with DPI620G-IS)



Pressure relief valve

When fitted to a PV62X pressure station a relief valve protects the PM620 pressure module and the device under test from overpressure.



Relief valve table Factory setting Adjustable range Part number For use with psi bar psi IO620-PRV-P1 PV621G PV622G 1 15 0.2 to 1 3 to 15 45 to 100 IO620-PRV-P2 PV621G PV622G 5 100 3 to 7 IO620-PRV-P3 PV621G PV622G 435 16 to 32 230 to 460 30 IO620-PRV-P4 PV622G 60 870 30 to 60 435 to 870 IO620-PRV-P5 PV622G 100 1,500 60 to 100 870 to 1,500 IO620-PRV-P6 PV621G PV622G 3 45 1.1 to 3 16 to 45 PV621G PV622G 90 to 170 IO620-PRV-P7 12 170 6.1 to 12 PV621G PV622G 18 12.1 to 18 175 to 260 IO620-PRV-P8 260 145 to 725 IO620-PRV-H1 PV623G 50 725 10 to 50 IO620-PRV-H2 PV623G 200 3000 50 to 200 725 to 2.900 IO620-PRV-H3 PV623G 400 6000 200 to 400 2,900 to 5,800 IO620-PRV-H4 PV623G 700 10.000 300 to 700 4.350 to 10.000 15,000 600 to 1,000 8,700 to 15,000 IO620-PRV-H5 PV623G 1,000

(P/N IO620-RAK-5U) Rack mount Kit

Enables the DPI620G to be mounted in a 5U 19" half rack

(P/N IO620-RAK-8U) Rack mount Kit

Enables the DPI620G to be mounted in a 8U 19" half rack

(P/N IO620-RAK-MC) Rack mount Kit

Enables the DPI620G + MC620 to be mounted in a 8U 19" half rack







Accessories for safe area use**

Dirt moisture trap

Prevents contamination of the PV621, 622 and 624 pneumatic systems and cross contamination from one device under test to another. The IDT connects directly to the PV621, 622 and 624 pressure port and replicates the quick fit connection for compatibility with the hose and adapter kits.



Note: 1 off IO620-IDT621 dirt moisture trap supplied with PV624.

P/N IO620-IDT621 - NEW: Maximum working pressure 35 bar (500 psi)

P/N IO620-IDT622: Maximum working pressure 100 bar (1,500 psi)

Pressure base station carrying case

A protective carrying case with shoulder strap and large pocket for accessories. Also accommodates the assembled system including the DPI620G and PM620.



P/N IO620-CASE-3: Safe area use

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

A rigid transit case with wheels and an extendable handle. Accommodates two PV62XG pressure stations, DPI620G, MC620G and PM620 modules, with ample storage space for accessories. Size: 736 mm x 554 mm x 267 mm. Weight: 8,5 kg empty.





Pneumatic hose

Pneumatic hose terminated with quick fit connectors compatible with the test point adapters supplied with the PV62XG, MC620G and the adapter sets.



P/N IOHOSE-NP1: 1 m/3.28 ft pneumatic hose. Maximum pressure 20 bar/300 psi

P/N IOHOSE-NP2: 2 m/6.56 ft pneumatic hose. Maximum pressure 20 bar/300 psi

P/N IO620-HOSE-P1: 1 m/3.28 ft pneumatic hose. Maximum pressure 400 bar (5,800 psi)

P/N IO620-HOSE-P2: 2 m/6.56 ft pneumatic hose. Maximum pressure 400 bar (5,800 psi)

Hydraulic hose

A high pressure hydraulic hose rated to 1,000 bar (15,000 psi) and terminated with quick fit connectors compatible with the test point adapters supplied with the PV62XG, MC620G and the adapter sets. The hose is self sealing to avoid leakage when disconnected.



P/N IO620-HOSE-H1: 1 m/3.28 ft hydraulic hose **P/N IO620-HOSE-H2:** 2 m/6.56 ft hydraulic hose

Intrinsically safe systems for hazardous area use**

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

Model	Description	Measure Pressure Via PM620 & MC620/ PV62X	Connection for RTD accesory	Measure mA, mV, V	Source mA	15V Loop Power	Source mV, V	Measure/ Source Frequency	Measure/ Source Resistance	Temp(RTD/ TC)	Multi channel for simultane- ous Mea- surement/ Source	HART	Profi Bus	Fieldbus
DPI620G-IS-L	Multifunction Calibrator	•	•	•	•	•	•	•	•	•	•			
DPI620G-IS	Multifunction Calibrator & HART communicator	•	•	•	•	•	•	•	•	•	•	•		
DPI620G-IS-PB	Multifunction Calibrator & HART communicator with Profi Bus	•	•	•	•	•	•	•	•	•	•	•	•	
DPI620G-IS-FF	Multifunction Calibrator & HART communicator with Fieldbus	•	•	•	•	•	•	•	•	•	•	•		•
DPI620G-IS-FFPB	Multifunction Calibrator & HART communi- cator with Profi Bus & Fieldbus	•	•	•	•	•	•	•	•	•	•	•	•	•

The DPI 620G-IS Series are supplied with a rechargeable lithium ion battery P/N IO620G-IS-BATTERY, universal mains adapter P/N IO620-PSU and charger P/N IO620G-IS-CHARGER, test leads, calibration certificate, and quick reference guide.

(P/N IO620G-IS-BATTERY) Spare/replacement

rechargeable battery

(P/N IO620-PSU) Spare/replacement universal mains adapter

(P/N IO620G-IS-CHARGER) Spare/replacement charger (PSU not included)

Model MC620-IS

Pressure module carrier for DPI620G-IS series.

Supplied with G 1/8 female and 1/8 NPT female adaptors (2 of each)

Model PM620-IS "pressure range" and "type"

Intrinsically safe pressure module supplied with calibration certificate. Please state model number, pressure range and type gauge or absolute e.g., PM620-IS 20 bar (300 psi) gauge (see page 11 for pressure ranges)

Model PV621-IS

Intrinsically safe pneumatic pressure generating station vacuum to 20 bar (300 psi)

Model PV622-IS

Intrinsically safe pneumatic pressure generating station vacuum to 100 bar (1,500 psi)

Model PV623-IS

Intrinsically safe hydraulic pressure generating station 0 to 1,000 bar (15,000 psi)

The PV621-IS, 622-IS and 623-IS are supplied with G1/8 female and 1/8 NPT female adapters carry strap, and quick reference guide. In addition, the PV623-IS includes a plastic refill bottle for hydraulic fluid.

Accessories for hazardous area use**

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

A protective carrying case for system components including the DPI620G-IS, MC620-IS, PM620-IS modules, test leads, hose and adapters.

Pressure station carrying case

A protective carrying case with shoulder strap and large pocket for accessories. Also accommodates the assembled system including the DPI620G-IS and PM620(T)-IS.

P/N IO620-CASE-3-IS: Hazardous area use

Dirt moisture trap

Prevents contamination of the PV621-IS and PV622-IS pneumatic systems and cross contamination from one device under test to another. The IDT connects directly to the PV621-IS and PV622-IS pressure port and replicates the quick fit connection for compatibility with the hose and adapter kits.



P/N IO620-IDT621-IS NEW: Maximum working pressure 35 bar (500 psi)

P/N IO620-IDT622: Maximum working pressure 100 bar (1,500 psi)

Pneumatic hose

Pneumatic hose terminated with quick fit connectors compatible with the test point adapters supplied with the PV62XG, MC620G and the adapter sets.

P/N IO620-HOSE-P1-IS: 1 m/3.28 ft pneumatic hose. Maximum pressure 400 bar (5,800 psi)

P/N IO620-HOSE-P2-IS: 2 m/6.56 ft pneumatic hose. Maximum pressure 400 bar (5,800 psi)

Hydraulic hose

A high pressure hydraulic hose rated to 1,000 bar (15,000 psi) and terminated with quick fit connectors compatible with the test point adapters supplied with the PV62XG, MC620G and the adapter sets. The hose is self sealing to avoid leakage when disconnected.



P/N 10620-HOSE-H1-IS: 1 m/3.28 ft hydraulic hose P/N 10620-HOSE-H2-IS: 2 m/6.56 ft hydraulic hose



Accessories

Pressure adapter set (for safe and hazardous area use)

A set of test point adapters to connect the tool less quick fit PV62XG, MC620G and the extension hoses to the device under test.

P/N 10620-BSP: G1/8 male and G¼ male, G¼ female, G3/8 female and G½ female

P/N 10620-NPT: 1/8" male and ¼" male, ¼" female, 3/8" female, and ½" female

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





(P/N 10620-COMP-NEW)

Comparator adapter (for safe and hazardous use)

Allows the PV62XG pressure station to be used as a comparator. The adapter connects to the stations pressure port and provides two outlet ports for making gauge comparisons. Compatible with the test point adapters supplied with the PV62XG and the adapter sets.

(P/N IO620-BLANK) Blanking plug (for safe and hazardous use)

Allows the PV621G and 622G to be used as pressure generators independently of the DPI620G and PM620 by blanking the PV62XG pressure module port. Not required for the PV623G as the port is self-sealing.

(P/N 10620-104 ADAPT)

DPI 104 gauge adaptor (for safe and hazardous use)

Allows a DPI 104 digital pressure gauge to be connected to the PV62XG pressure module port in place of DPI620G and PM620 to provide a simple low cost pressure calibrator.







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