DPG Battery Powered

Features:

- Gauge or Absolute pressure
- ABS Plastic Housing
- Alarm relay, max/min information
- 5000 point data logger with USB interface
- Built-in temperature compensated Pressure Sensor

Description:

The DPGB series battery powered gauge can be supplied in gauge or absolute pressure formats and displays the sensor pressure in bar, PSI or the user's engineering unit on a 6-digit LCD display. The instrument offers an advanced display mode allowing the user to also display one or two (1 to 32) character messages.

Additional to the messages, the user may select an alert-event to occur when the pressure is within a band. A change-over relay can be used together with the messaging and alerts to provide switching at user-set points. In addition to this, on-board datalogging is also available to record process details at up to 5000 points.

Specification:

- Range: 0 600 Bar
- Overpressure: 1.5x full scale
- Measurement type: Gauge / Absolute
- Accuracy: ± 0.5% F.S. BFSL@25C
- Temperature compensation: Automatic
- Total error: 1%
- Working Temperature: -10C 80C
- Stability: ±0.2% F.S. /year
- Process fitting: G1/4" (other types available on request)
- User changeable pressure units via software
- Stainless Steel Pressure Sensor Housing, ABS enclosure and Clear Polycarbonate display cover.

Applications:

- For use with gas or liquid.
- General Industrial including, Plant, Machine, Heating and Water applications
- Use the relay to control alarms and other process actions.

General Note

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Features

INPUT PARAMETERS

Range	600 Bar
Over pressure	1.5 times FS
Accuracy	+/- 0.5% within compensated range
Operating temperature	-10 C - 80C
Storage temperature	-40C - 125C
Long term stability	+/- 0.2% FS/ YR

DATA LOGGING FUNCTION

The DPGB series also provides a powerful data logging function. The log points can be set up to 5000 points; each point is time and date-stamped together with process value, and relay state information. The log rate is selectable in steps. The start of log can be delayed if required. Either fixed or rolling logs maybe performed. The USB configuration reads the log and allows the user to save to a text file for export to other programs.

REAL-TIME CLOCK

Date and time can also be displayed with the input pressure. The real-time clock is used to record the data logged points.

RELAY

The instrument is equipped with single volt-free changeover-type relay. The user may select one of several actions, including deviation operation, with fully adjustable set point and dead-band. An option is provided to trigger an alert-event when a relay contact is on.

CALIBRATION/USER-LINEARISATION

5-point calibration can be applied using the USBSpeedLink software. As well as straight line interpolation, up to 22 points (x,y) of user-linearisation are available for creating custom curves and corrections.

General Note

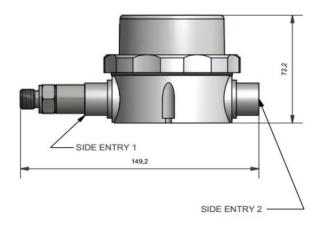
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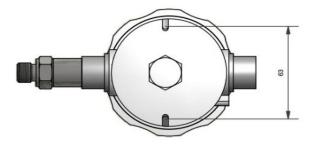
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Specifications

Body type B





DISPLAY

Type/options/function Display height Display information options

High intensity LED

MECHANICAL

Enclosure (case)
Display cover
Case entry
Front bezel diameter
Weight (approximate)
Material in contact with media O-ring

Description

7.9 mm non-backlit
Pressure value, Process value, °C or °F plus "Loss of power", "USB", icons,
8 segment log volume/signal indicators
Warning options

ABS, grey base, blue clamp ring Polycarbonate, clear 1 x M20 female thread, blanking plug supplied 65 mm 240 g Stainless steel 316L Viton

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Specifications

CONNECTIONS

Sensor to process	¼ inch BSP male
Output	Two-part screw connectors
USB connection	USB mini B port
ENVIRONMENTAL Function Ambient housing temperature Ambient sensor temperature Ambient humidity Protection USB configuration ambient	Description Operating/storage (-30 - 70) °C Operating (-10 - 80) °C Operating/storage (10 - 90) %RH non-condensing IP67, cable entry must be sealed to IP67 (10 - 30) °C
RELAY	Description
Type/options/function	Description
Independent relay Rating	Single pole change-over (common, N/o, N/c) 48 VDC maximum @ 1 A (5 mA minimum)
	28 VAC RMS maximum @ 1 A

APPROVALS

EMC	BS EN 61326
Ingress protection	BS EN 60529
RoHS	Directive 2011/65/EU

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Specifications

USB CONFIGURATION USER INTERFACE

NTERFACE	
Description	Notes
USB Mini B port	Cable not included
USBSpeedLink	Contact Us
Microsoft Windows	Win 7 or later
User calibration	Up to 5 points Applied by button action
Display mode	Basic with advanced options
Pressure units	Bar, PS I, mBar, Pa, KPa, MPa Kgf/m², Kgf/cm², Kgf/mm² Atm, custom units (any)
Custom units	With 22-point linearization
Locks input value to setpoint	For diagnostics
Eight user adjustable pressure	Alert LED flash
Out of range Low battery level	Warning symbol will flash on LCD display
Update rate Display variable options Temperature units Alert LED	
Display variable (see basic mode) with messaging options	
Alert LED plus message	Relay option link in software
Set device passkey number Clear, start new log	Device passkey is used to protect the NFC interface.
Synchronise clock Write tag, contact ad- dress Read, reset maximum and mini- mum input values Latitude longitude settings	
Name(s)	10 characters
Action	High, low, band, low battery, on, off
Setpoint	In engineering units
Dead band	In engineering units
Latch	On, off
Read sensor pressure	bar
Read displayed value	Selected engineering unit
Read sensor temperature	°C
Relay 1 state. Relay 2 state	
Time and date	
	Description USB Mini B port USBSpeedLink Microsoft Windows User calibration Display mode Pressure units Custom units Locks input value to setpoint Eight user adjustable pressure Out of range Low battery level Update rate Display variable options Temperature units Alert LED Display variable (see basic mode) with m Alert LED plus message Set device passkey number Clear, start new log Synchronise clock Write tag, contact ad- dress Read, reset maximum and mini- mum input values Latitude longitude settings Name(s) Action Setpoint Dead band Latch Read sensor pressure Read displayed value Read sensor temperature Relay 1 state. Relay 2 state

*1 Only use advanced display above -5°C ambient temperature, below use basic display

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Specifications

USB LOGGER USER INTERFACE

Type/options/function Logger hardware Logger software Operating system Logger

Description USB Mini B port USBLogLink Microsoft Windows Start/set log parameters Read log parameters Stop, start new log Synchronise device clock Reset maximum and minimum Synchronise, read clock

View log data, graph log data

Notes

Cable not included Contact us Win 7 or later Interval, rate, (delay) start, number of points, rolling or fixed log

Save data to CSV file

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ORDER CODE

Series	Case material (leave blank for ABS)	Pressure range (upto 50 Bar)
DPGL (loop powered)	/SS 316 option	-XXX (ie 010, 10 Bar)
DPGB (battery powered)	/SS 316 option	-XXX (i.e. 010, 10 Bar)

Example: Loop powered, ABS body, 30 Bar Sensor DPGL-030

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