
DIGITAL PRESSURE GAUGE
 PG – 4B (04)
 Battery drive system

SPECIFICATIONS

Specifications are subject to change without prior notice.

Rev.	Date	Revision history			ChangeNo.	Rep.
Create		October 12, 2017		PANTOS CO., LTD.		
Revision						
Text	3 pages	Writing	Check	Approve	Document number	Rev.
Figure	0 sheet	Kumeki	Takahata	Takahata	PG4B-04-0001	
Cover	1 sheet					

1. Outline

This machine measures the positive and negative pressure of the inlet manifold of a gasoline engine. The measured value can be directly read by the digital panel meter on the panel side and the calibrated voltage can be taken out from the connector on the rear panel.

Since this machine uses a diffusion type semiconductor sensor for the sensor, mechanical elements like bellows do not enter, so it can measure with less hysteresis and with high accuracy.

In addition, since this unit has a low-pass filter with a variable cutoff frequency, signals with large fluctuations can be averaged and measured.

The power supply is driven by using dry batteries.

2. Operating principle

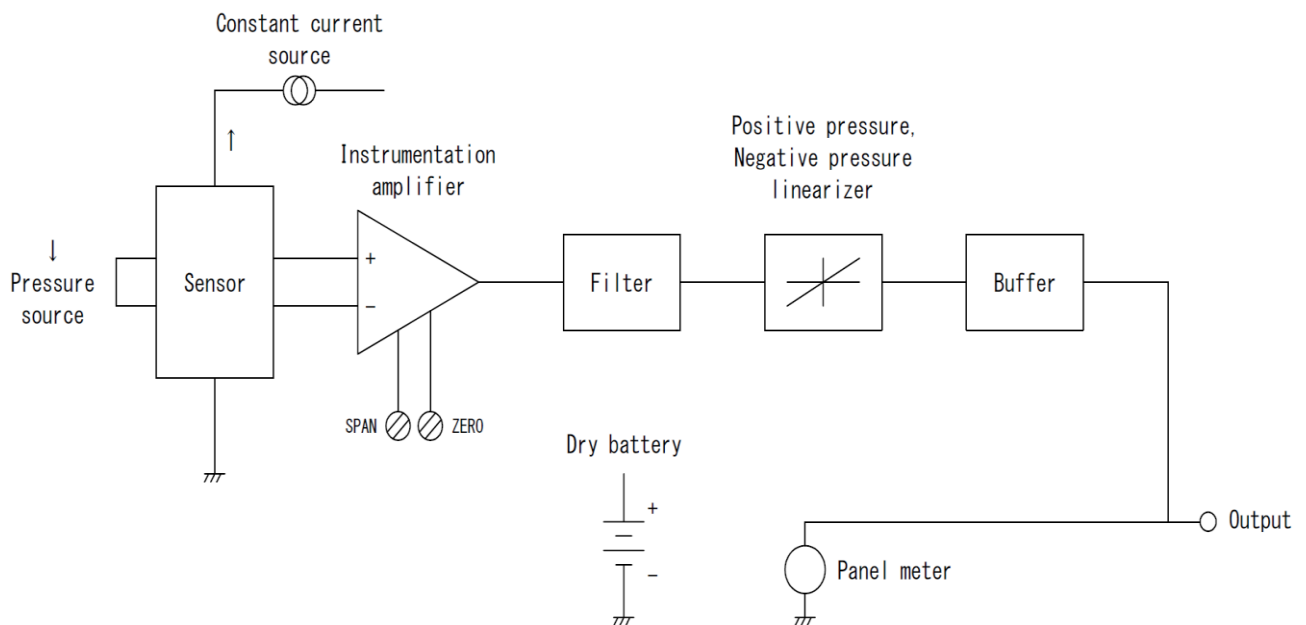


Fig. 1. Configuration block diagram

The diffusion type semiconductor sensor forms a bridge circuit and has the basic configuration as shown in the block diagram of Fig. 1.

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3. Specifications

3.1. Outline

This machine is a pressure gauge that measures pressure and negative pressure and can measure up to 500 kPa. The power supply is driven by using dry batteries.

3.2. Basic specifications

Model	PG-4B(04)
Name	Digital pressure gauge
Function	Pressure measurement
Input	4.5mm diameter (inner diameter : 3mm)

3.3. Measurement

Number of measurement display	1 element
Calculation	Pressure
Measurement range	-100kPa ~ +500kPa Maximum pressure 981kPa
Measurement accuracy	±0.5%/FS
Speed of response	10Hz(-3dB)
Exhaust pressure temperature	80°C or below

3.4. Display

Display	Pressure
Display digit	4 $\frac{1}{2}$ panel meter(-100.0kPa ~ +500.0kPa)

3.5. Output

Pressure	-1V ~ +5V / -100kPa ~ +500kPa
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3.6. General information

Power supply	4 AA alkaline dry cell (Approx. 5 hours continuous use)
	AC adapter DC3.3V 2000mA
Usage environment	Temperature 5 ~ 45 °C
	Humidity 35 ~ 85 % RH
Storage environment	Temperature 0 ~ 45 °C No dew condition
External dimensions	140(W)×50(H)×145(D)mm (Projection things are not included)
Mass	Approx. 600g
Vibration	0.1G or below (5~55Hz)
Impact	Unacceptable

3.7. Accessories

Instruction manual		1
Test result		1
alkaline cable	AA	4
BNC-BNC cable	3m	1
AC adapter	DC3.3V 2000mA	1
Fuse	2A	1

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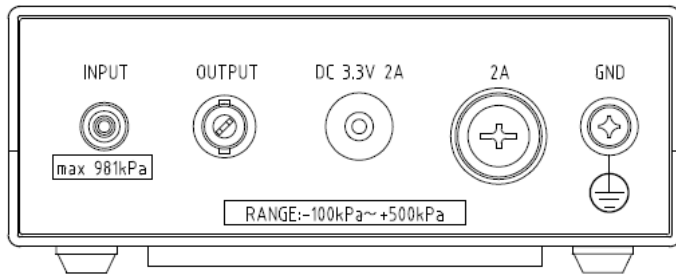
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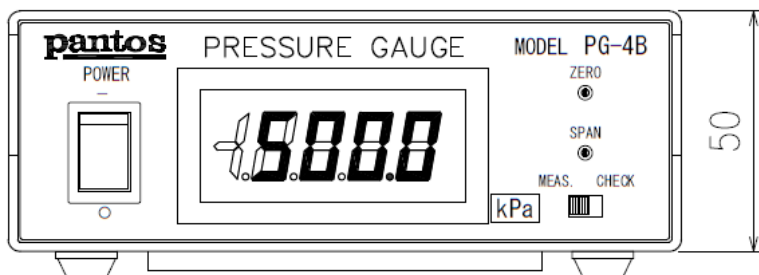
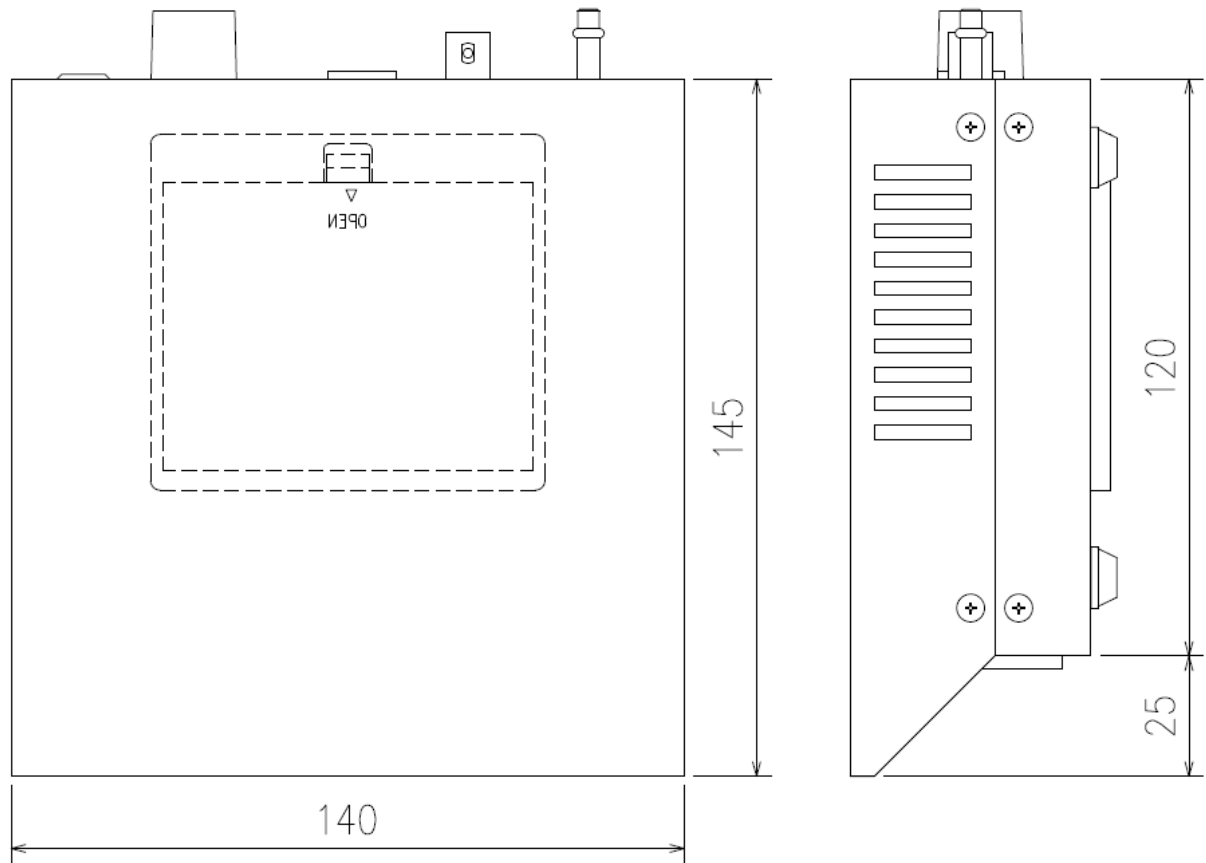
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4. External drawing



Rear view



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