



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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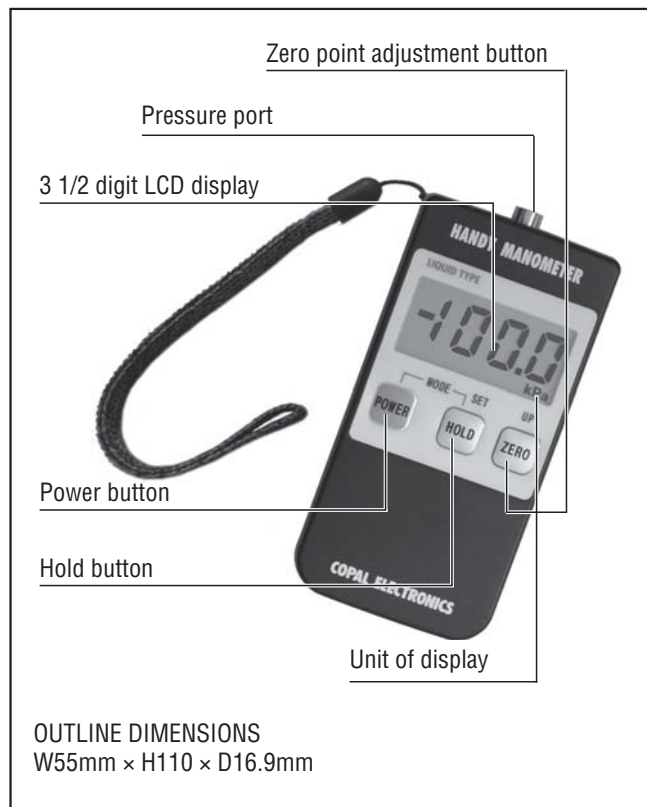
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HANDHELD DIGITAL MANOMETER

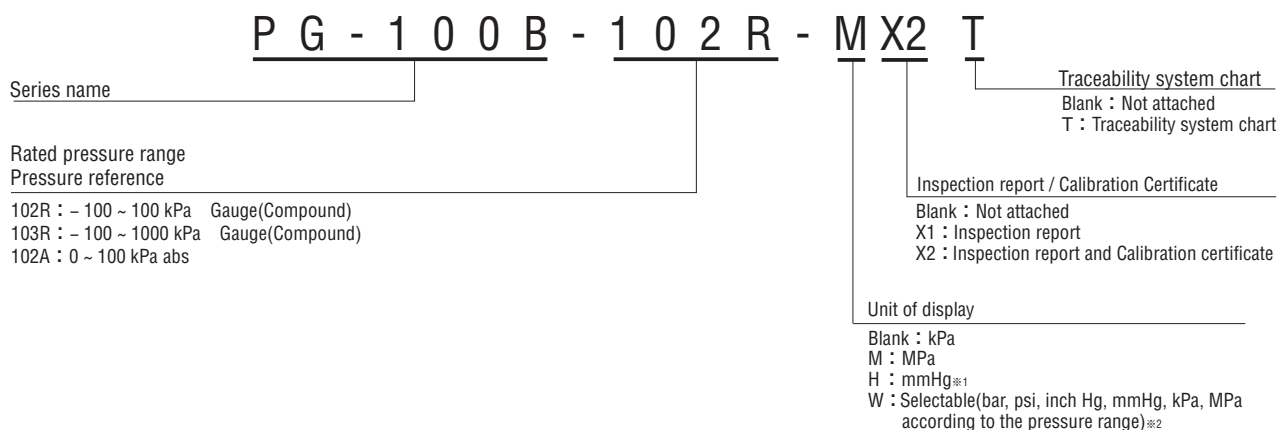
PG-100B



FEATURES

- **New lineup of PG-100 series for measuring gas and liquid pressure**
- **Capable of measuring Absolute pressure (PG-100B-102A)**
- **Excellent stability**
High precision semiconductor chip combined with temperature compensation circuit guarantee excellent stability.
- **Long battery life**
Lasts more than 1000hrs with two AAA dry batteries.
- **Automatic power off function**
- **Easy, one-handed operation**
- **Easy-to-read large LCD display**
- **Pressure unit selectable type also available (PG-100B-****-W).**

MODEL NUMBER DESIGNATION



LIST OF MODEL NUMBERS

Pressure reference	Gauge(Compound)		Absolute
Rated pressure range (kPa)	-100 ~ 100	-100 ~ 1000	0 ~ 100 (abs)
kPa	PG-100B-102R- ***	PG-100B-103R- ***	PG-100B-102A- ***
MPa		PG-100B-103R-M **	
mmHg	PG-100B-102R-H **		
Selectable	PG-100B-102R-W **	PG-100B-103R-W **	PG-100B-102A-W ***

PG-100B

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

<kPa version>

● Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C.

Item		PG-100B		
General specifications	Pressure reference	Gauge		Absolute
	Model number	102R	103R	102A
	Rated pressure range	kPa - 100 ~ 100	- 100 ~ 1000	0 ~ 100 kPa abs
	Maximum pressure	kPa 200	2000	200 kPa abs
	Break-down pressure	kPa 300	3000	300 kPa abs
	Operating temp. range	°C	0 ~ 50	
	Compensated temp. range	°C	0 ~ 50	
	Operating humidity	% RH	15 ~ 85 (No condensation)	
	Storage temp.	°C	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium		Gases/liquids compatible with SUS316L	
	Pressure port		M 5 female	
	Net weight	g	Approx. 100	
	Power		AAA dry battery DC 1.5 V × 2 Battery life 1000 h minimum	
Display	No. of digits	3 1/2		
	Display element	LCD		
	Rated display range	- 100.0 ~ 100.0	- 100 ~ 1000 - 100 ~ 1.000 (MPa)	00.0 ~ 100.0
	Display cycle	Approx. 4 times/s		
	Integrated accuracy	± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C)		
		± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)	± 2.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)	
	Resolution	1 digit		
Analog output	Power supply (External supply)	5 ± 0.5 V DC 5 mA maximum		
	Output voltage	$0 \sim \pm 1.000$ V ※ Proportionate to display value		
	Output accuracy / Resolution	± 10 mV / 1mV		
	Output resistance	Approx. 10 kΩ		
	Response	Approx. 10 ms		
Additional function	Additional function	Auto power off, Display hold, Battery replacement display(LOBAT), Zero point adjustment		
	Accessories	Fitting (half union for 6mm OD tube), 2 AAA batteries, strap, protective cover		
	Option (Sold seperately)	PG-100B soft carrying case		

PG-100B

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

<Non SI unit version>

● Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C.

Item		PG-100B	
General specifications	Pressure reference	Gauge	
	Model number(mmHg display : compound)	102R-H	
	Rated pressure range kPa (mmHg)	- 100 ~ 100 (- 750 ~ 750)	
	Maximum pressure kPa (mmHg)	200 (1500)	
	Break-down pressure kPa (mmHg)	300 (2250)	
	Operating temp. range	°C 0 ~ 50	
	Compensated temp. range	°C 0 ~ 50	
	Operating humidity	% RH 35 ~ 85 (No condensation)	
	Storage temp.	°C - 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium	Gases/liquids compatible with SUS316L	
	Pressure port	M 5 female	
	Net weight	g Approx. 100	
	Power	AAA dry battery DC 1.5 V × 2 Battery life 1000 h minimum	
Display	No. of digits	3 1/2	
	Display element	LCD	
	Rated display range(mmHg display)	- 750 ~ 750	
	Display cycle	Approx. 4 times/s	
	Integrated accuracy		± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C)
			± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)
Resolution	1 digit		
Analog output	Power supply (External supply)	5 ± 0.5 V DC 5 mA maximum	
	Output voltage	$0 \sim \pm 1.000$ V ※ Proportionate to display value	
	Output accuracy / Resolution	± 10 mV / 1 mV	
	Output resistance	Approx. 10 kΩ	
	Response	Approx. 10 ms	
Additional function	Additional function	Auto power off , Display hold, Battery replacement display(LOBAT), Zero point adjustment	
	Accessories	Fitting (half union for 6mm OD tube), 2 AAA batteries, strap, protective cover	
	Option (Sold seperately)	PG-100B soft carrying case	

PG-100B

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ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions (At 25 ± 5 °C)	Permissible change
Vibration	Amplitude 1.5 mm P-P, 10 ~ 55 Hz, 3 directions for 2 hours each (packed)	Indicating accuracy: ± 1 %F.S. maximum
Shock	98.1 m/s ² , 3 directions for 3 times each (packed)	
Pressure cycling	0 ~ Rated pressure, 10 ⁶ cycles	
Moisture resistance	40 °C, 90 ~ 95 %RH, 240 hrs.	

OUTLINE DIMENSIONS

Unless otherwise specified, tolerance : ± 0.5 (Unit: mm)

