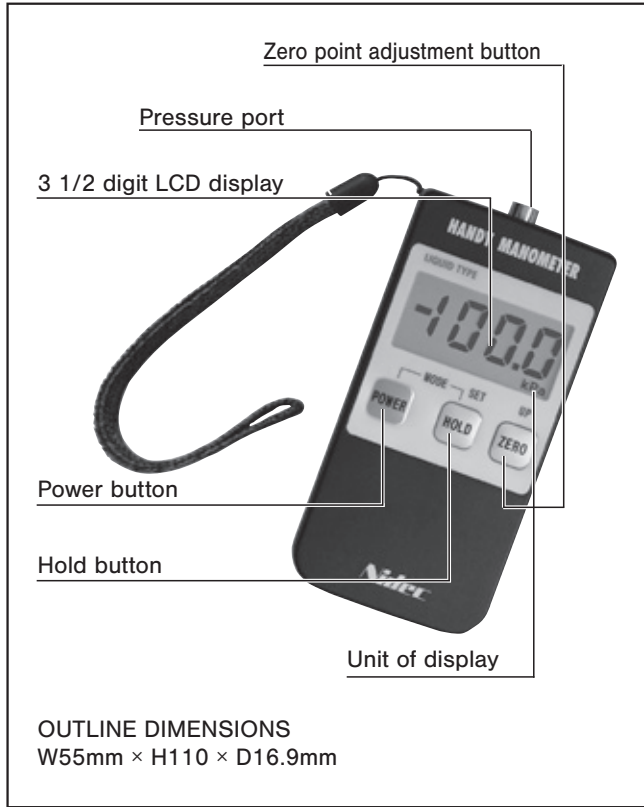


HANDHELD DIGITAL MANOMETER

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

P G - 1 0 0 B - 1 0 2 R - M X 2 T

Series name

Rated pressure range
Pressure reference

102R : - 100 ~ 100 kPa Gauge(Compound)
103R : - 100 ~ 1000 kPa Gauge(Compound)
102A : 0 ~ 100 kPa abs

Traceability system chart
Blank : Not attached
T : Traceability system chart

Inspection report / Calibration Certificate

Blank : Not attached
X1 : Inspection report
X2 : Inspection report and Calibration certificate

Unit of display

Blank : kPa
M : MPa
H : mmHg
W : Selectable(bar, psi, inch Hg, mmHg, kPa, MPa according to the pressure range)※

※ : 103R range products do not correspond to Unit mmHg of Pressure unit selectable W type.
(Refer to the Pressure unit selectable W type below.)

Pressure unit selectable W type

Pressure range	Unit selectable W type						
	kPa	Mpa	mmHg	in.Hg	mmAg	psi	bar
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○
102A	○	○	○	○	—	○	○

※ " — " is not supported as a display unit.

PG-100B

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LIST OF MODEL NUMBERS <For non-corrosive gas>

Pressure reference		Gauge(Compound)		Absolute
Rated pressure range (kPa)		-100 ~ 100	-100 ~ 1000	0 ~ 100 (abs)
kPa	Product only	PG-100B-102R	PG-100B-103R	PG-100B-102A
	Inspection report	PG-100B-102R-X1	PG-100B-103R-X1	PG-100B-102A-X1
	Inspection report and Traceability system chart	PG-100B-102R-X1T	PG-100B-103R-X1T	PG-100B-102A-X1T
	Inspection report and Calibration certificate	PG-100B-102R-X2	PG-100B-103R-X2	PG-100B-102A-X2
	Traceability system chart	PG-100B-102R-T	PG-100B-103R-T	PG-100B-102A-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-X2T	PG-100B-103R-X2T	PG-100B-102A-X2T
MPa	Product only	/	PG-100B-103R-M	/
	Inspection report		PG-100B-103R-M-X1	
	Inspection report and Traceability system chart		PG-100B-103R-M-X1T	
	Inspection report and Calibration certificate		PG-100B-103R-M-X2	
	Traceability system chart		PG-100B-103R-M-T	
	Inspection report, Calibration certificate and Traceability system chart		PG-100B-103R-M-X2T	
mmHg	Product only	PG-100B-102R-H	/	/
	Inspection report	PG-100B-102R-H-X1		
	Inspection report and Traceability system chart	PG-100B-102R-H-X1T		
	Inspection report and Calibration certificate	PG-100B-102R-H-X2		
	Traceability system chart	PG-100B-102R-H-T		
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-H-X2T		
Selectable	Product only	PG-100B-102R-W	PG-100B-103R-W	PG-100B-102A-W
	Inspection report	PG-100B-102R-W-X1	PG-100B-103R-W-X1	PG-100B-102A-W-X1
	Inspection report and Traceability system chart	PG-100B-102R-W-X1T	PG-100B-103R-W-X1T	PG-100B-102A-W-X1T
	Inspection report and Calibration certificate	PG-100B-102R-W-X2	PG-100B-103R-W-X2	PG-100B-102A-W-X2
	Traceability system chart	PG-100B-102R-W-T	PG-100B-103R-W-T	PG-100B-102A-W-T
	Inspection report, Calibration certificate and Traceability system chart	PG-100B-102R-W-X2T	PG-100B-103R-W-X2T	PG-100B-102A-W-X2T

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		M5 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 \pm 0.5 V DC 5 mA maximum			
	Output voltage	0 ~ ± 1.000 V ※ Proportionate to display value			
	Output accuracy / Resolution	± 10 mV / 1mV			
	Output resistance	Approx. 10 k Ω			
	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	- 100 ~ 100 (- 750 ~ 750)	
	Maximum pressure	200 (1500)	
	Break-down pressure	300 (2250)	
	Operating temp. range	0 ~ 50	
	Compensated temp. range	0 ~ 50	
	Operating humidity	35 ~ 85 (No condensation)	
	Storage temp.	- 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium	Gases/liquids compatible with SUS316L	
	Pressure port	M5 female	
	Net weight	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 k Ω	
	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

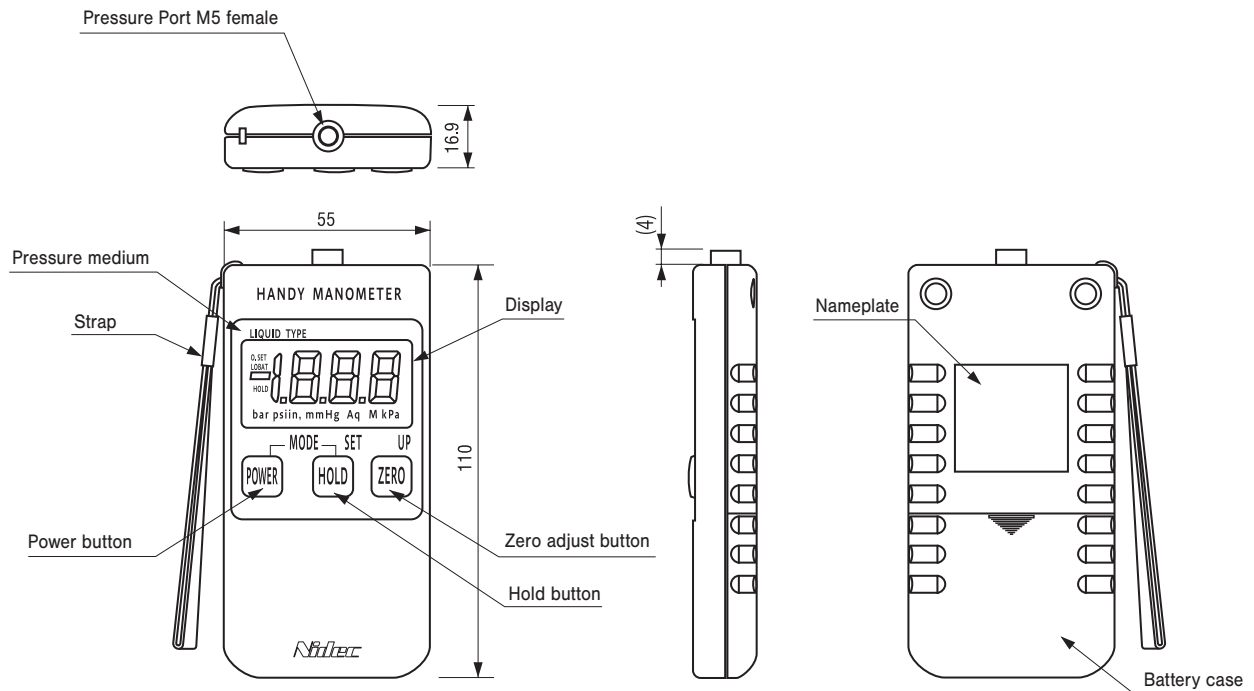
HANDHELD DIGITAL MANOMETER

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)



OPTION

The soft carrying case for PG-100B- Order item: PG-100 soft carrying case (Useful for when carrying out and keeping.)



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