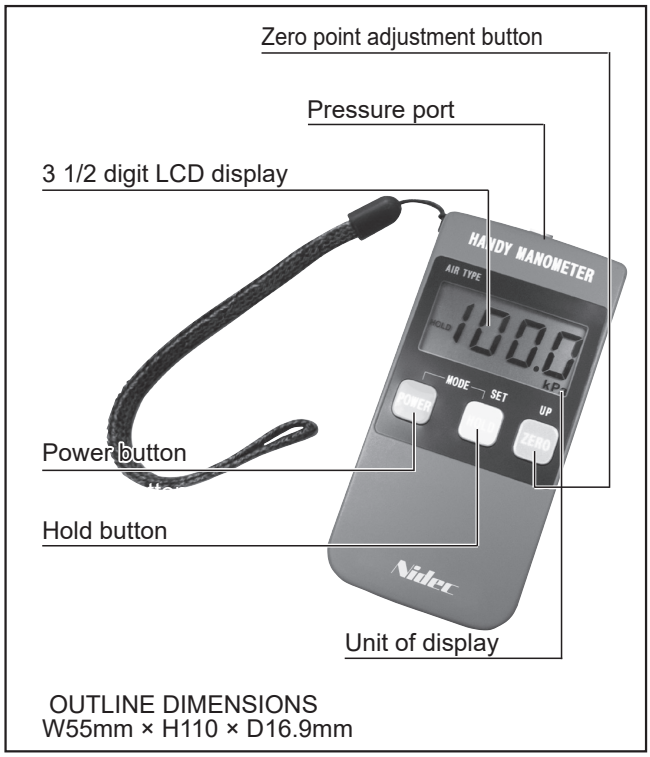
HANDHELD DIGITAL MANOMETERS PG-100N



OUTLINE DIMENSIONS
W55mm × H110 × D16.9mm

FEATURES

- **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-100N-****-W).**

MODEL NUMBER DESIGNATION

P G - 1 0 0 N - 1 0 3 R - M X2 T

Series name

Rated pressure range
Pressure reference
101R : − 10 ~ 10 kPa Gauge(Compound)
102R : − 100 ~ 100 kPa Gauge(Compound)
103R : − 100 ~ 1000 kPa Gauge(Compound)

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

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

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

※ : 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	mmAq	psi	bar
101R	○	—	○	○	○	○	○
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○

" — " is not supported as a display unit.

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PG-100N
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■ LIST OF MODEL NUMBERS 〈For non-corrosive gas〉

Pressure reference		Gauge(Compound)		
	Rated pressure range (kPa)	-10~10	-100~100	-100~1000
kPa	Product only	PG-100N-101R	PG-100N-102R	PG-100N-103R
	Inspection report	PG-100N-101R-X1	PG-100N-102R-X1	PG-100N-103R-X1
	Inspection report and Traceability system chart	PG-100N-101R-X1T	PG-100N-102R-X1T	PG-100N-103R-X1T
	Inspection report and Calibration certificate	PG-100N-101R-X2	PG-100N-102R-X2	PG-100N-103R-X2
	Traceability system chart	PG-100N-101R-T	PG-100N-102R-T	PG-100N-103R-T
	Inspection report,Calibration certificate and Traceability system chart	PG-100N-101R-X2T	PG-100N-102R-X2T	PG-100N-103R-X2T
MPa	Product only			PG-100N-103R-M
	Inspection report			PG-100N-103R-M-X1
	Inspection report and Traceability system chart			PG-100N-103R-M-X1T
	Inspection report and Calibration certificate			PG-100N-103R-M-X2
	Traceability system chart			PG-100N-103R-M-T
	Inspection report,Calibration certificate and Traceability system chart			PG-100N-103R-M-X2T
mmHg	Product only		PG-100N-102R-H	
	Inspection report		PG-100N-102R-H-X1	
	Inspection report and Traceability system chart		PG-100N-102R-H-X1T	
	Inspection report and Calibration certificate		PG-100N-102R-H-X2	
	Traceability system chart		PG-100N-102R-H-T	
	Inspection report,Calibration certificate and Traceability system chart		PG-100N-102R-H-X2T	
Selectable	Product only	PG-100N-101R-W	PG-100N-102R-W	PG-100N-103R-W
	Inspection report	PG-100N-101R-W-X1	PG-100N-102R-W-X1	PG-100N-103R-W-X1
	Inspection report and Traceability system chart	PG-100N-101R-W-X1T	PG-100N-102R-W-X1T	PG-100N-103R-W-X1T
	Inspection report and Calibration certificate	PG-100N-101R-W-X2	PG-100N-102R-W-X2	PG-100N-103R-W-X2
	Traceability system chart	PG-100N-101R-W-T	PG-100N-102R-W-T	PG-100N-103R-W-T
	Inspection report,Calibration certificate and Traceability system chart	PG-100N-101R-W-X2T	PG-100N-102R-W-X2T	PG-100N-103R-W-X2T

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PG-100N
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■ STANDARD SPECIFICATIONS
〈kPa version〉

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

Item			PG-100N		
General specifications	Pressure reference		Gauge		
	Model number		101R	102R	103R
	Rated pressure range	kPa	− 10 ~ 10	− 100 ~ 100	− 100 ~ 1000
	Maximum pressure	kPa	20	200	1500
	Break-down pressure	kPa	50	500	2000
	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		Non-corrosive gases		
	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		− 10.00 ~ 10.00	− 100.0 ~ 100.0	− 100 ~ 1000 −. 100 ~ 1.000(MPa)
	Display cycle		Approx. 4 times/s		
	Integrated accuracy		± 0.5 %F.S. ± 2 digits (at 25 °C ± 5 °C)		
			± 1.5 %F.S. ± 2 digits (at 25 °C ± 25 °C)	± 1.0 %F.S. ± 2 digits (at 25 °C ± 25 °C)	
	Resolution		1 digit		
Analog output	Power supply (External supply)		5 ± 0.5 VDC 5 mA maximum		
	Output voltage		0 ~ ± 1.000 V ※ Proportionate to display value		
	Output accuracy / Resolution		± 10 mV / 1mV		
	Output resistance		Approx. 10 kΩ		
	Response		Approx. 10 ms		
	Additional function		Auto power off, Display hold, Battery replacement display, (LOBAT), Zero point adjustment		
	Accessories		2 fittings (half union for 6mm O.D. tube, barb fitting for 4mm I.D. tube), 2 AAA batteries, strap		
	Option (Sold seperately)		PG-100N soft carrying case		

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PG-100N
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■ STANDARD SPECIFICATIONS
〈Non SI unit version〉

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

Item		PG-100N
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)	500 (3750)
	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	Non-corrosive gases
	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(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 VDC 5 mA maximum
	Output voltage	0 ~ ± 1.000 V ※ Proportionate to display value
	Output accuracy / Pesolution	± 10 mV / 1 mV
	Output resistance	Approx. 10 kΩ
	Response	Approx. 10 ms
	Additional function	Auto power off , Display hold, Battery replacement display(LOBAT), Zero point adjustment
	Accessories	2 fittings (half union for 6mm O.D. tube, barb fitting for 4mm I.D. tube), 2 AAA batteries, strap
	Option (Sold seperately)	PG-100N soft carrying case

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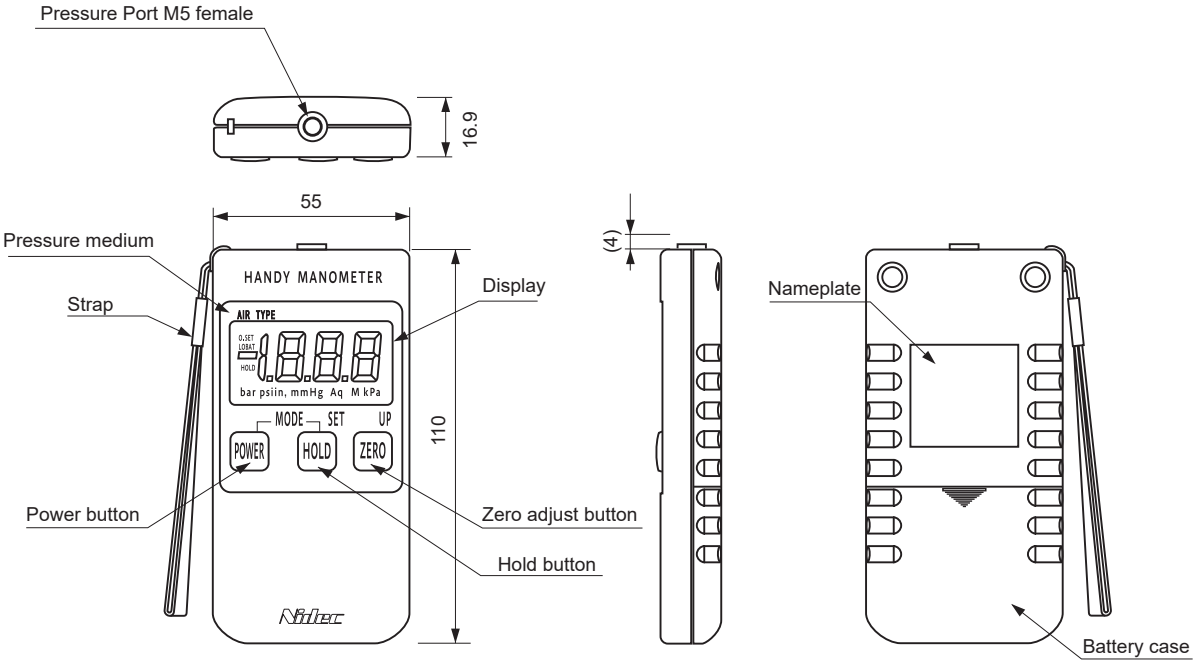
ENVIRONMENTAL CHARACTERISTICS

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/s², 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-100N – Order item: PG-100 soft carrying case
(Useful for when carrying out and keeping.)

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