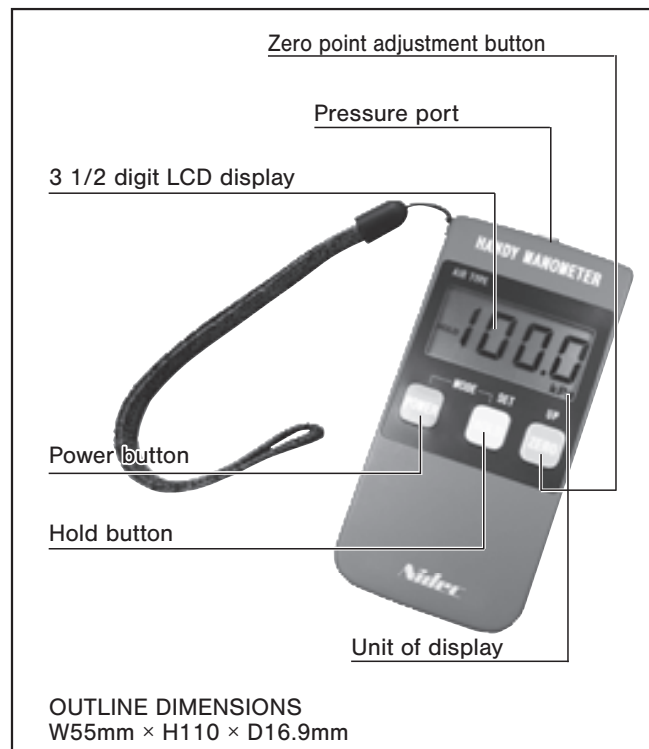


HANDHELD DIGITAL MANOMETER

PG-100N



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 2 R - M X2 T						
Series name			Rated pressure range		Traceability system chart	
			101 : - 10 ~ 10 kPa 102 : - 100 ~ 100 kPa 103 : - 100 ~ 1000 kPa		Blank : Not attached T : Traceability system chart	
Pressure reference			R : Gauge(Compound)		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, mmAg, 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
101R	○	—	○	○	○	○	○
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○

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

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

PG-100N

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

〈kPa version〉

● Unless otherwise specified, the specs are defined at an ambient temperature of $25 \pm 5^{\circ}\text{C}$.

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 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 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 OD tube, barb fitting for 4mm OD tube), 2 AAA batteries, strap			
	Option (Sold seperately)	PG-100N soft carrying case			

PG-100N

HANDHELD DIGITAL MANOMETER

STANDARD SPECIFICATIONS

〈Non SI unit version〉

● Unless otherwise specified, the specs are defined at an ambient temperature of $25 \pm 5^\circ\text{C}$.

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	$\pm 0.5\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 5^\circ\text{C)}$
		$\pm 1.0\% \text{F.S.} \pm 2 \text{ digits (at } 25^\circ\text{C} \pm 25^\circ\text{C)}$
	Resolution	1 digit
Analog output	Power supply (External supply)	$5 \pm 0.5 \text{ V DC } 5 \text{ mA maximum}$
	Output voltage	$0 \sim \pm 1.000 \text{ V}$ ※ Proportionate to display value
	Output accuracy / Resolution	$\pm 10 \text{ mV} / 1 \text{ mV}$
	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 OD tube, barb fitting for 4mm OD tube), 2 AAA batteries, strap
	Option (Sold seperately)	PG-100N soft carrying case

PG-100N

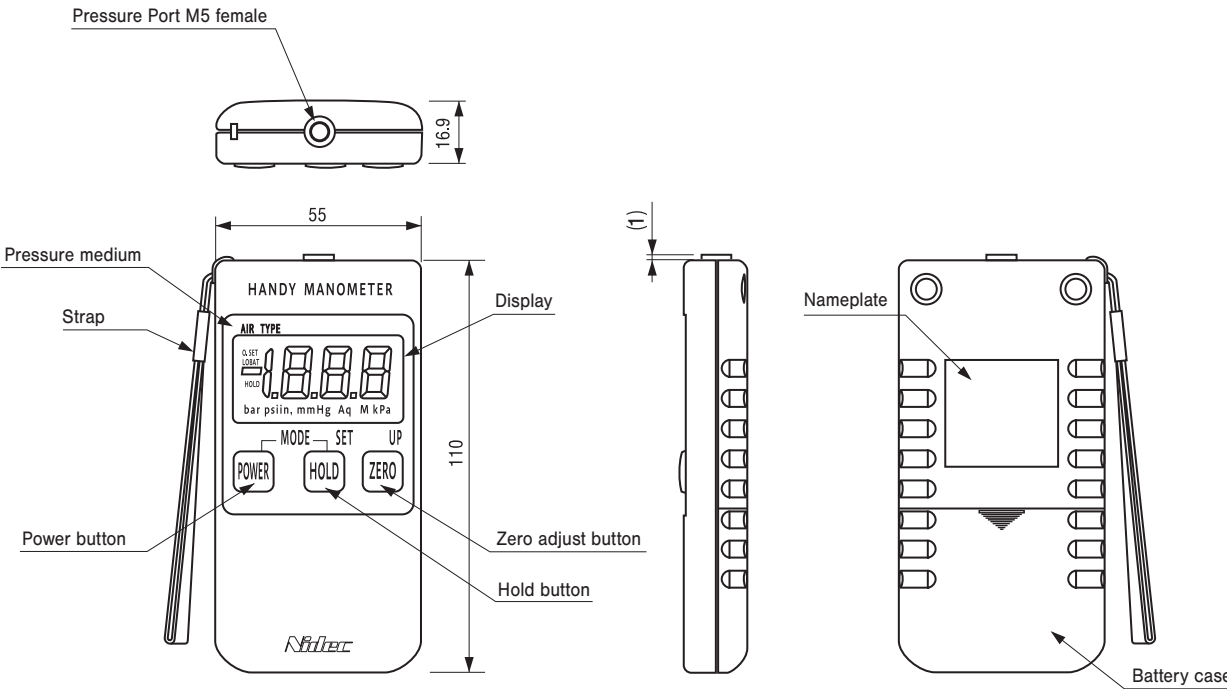
HANDHELD DIGITAL MANOMETER

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



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