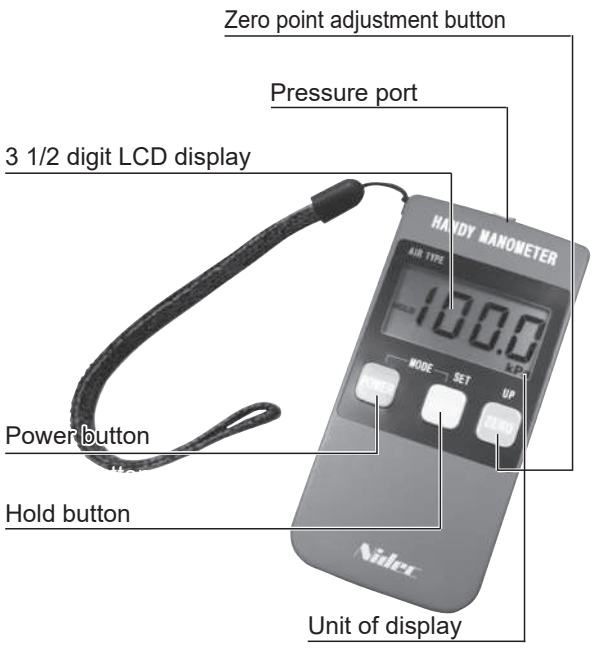
HANDHELD DIGITAL MANOMETERS PG-100N



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)

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, mmAq, 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	mmAq	psi	bar
101R	○	—	○	○	○	○	○
102R	○	○	○	○	—	○	○
103R	○	○	—	○	—	○	○

" — " is not supported as a display unit.

PG-100N
HANDHELD DIGITAL MANOMETERS

■ 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 MANOMETERS

■ 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		

PG-100N
HANDHELD DIGITAL MANOMETERS

■ 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

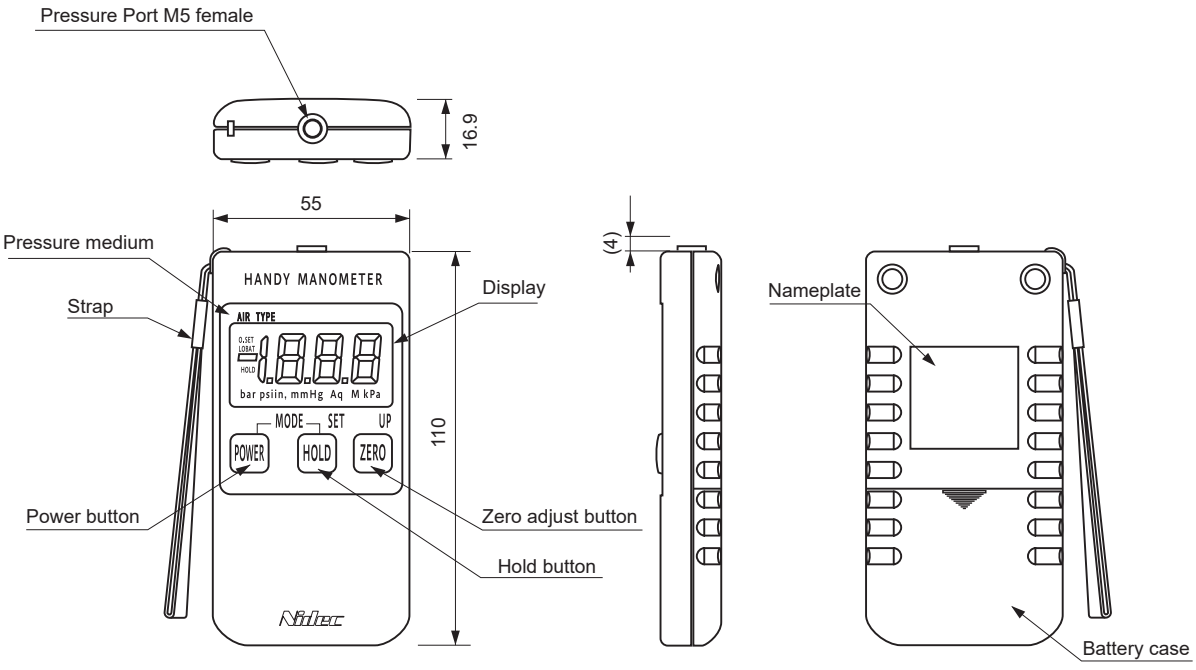
PG-100N
HANDHELD DIGITAL MANOMETERS

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.)

