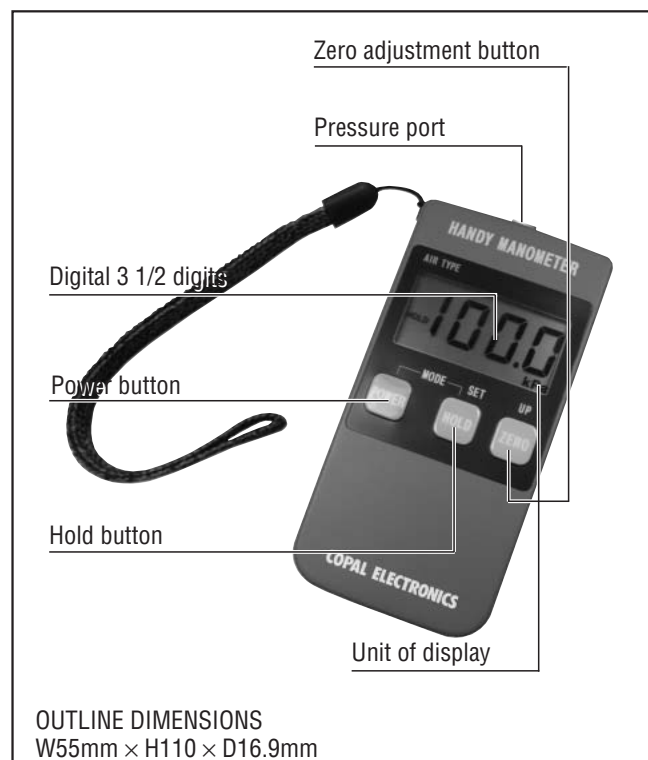


HANDY MANOMETER

PG-100N



FEATURES

- **Excellent stability**
Pressure-sensitive element of semiconductor chip and circuit technology guarantees excellent temperature compensation.
- **Super long battery life**
It drives more than 1000 hours with two AAA dry batteries.
- **Automatic power off**
- **Handy size and easy one hand operation**
- **Easy reading with a large LCD display**
No reading error because of digital display with the holding function.
- **CE, UL (To be obtained)**

MODEL NUMBER DESIGNATION

PG - 100N - 102R - MX2 T

Series name

Rated pressure range

101 : 0 ~ 10 kPa
102 : 0 ~ 100 kPa
103 : 0 ~ 1000 kPa

Pressure reference

R : Gauge(Compound)

※1 For specific application only. When use of the unit, application submitting will be needed.

※2 Only sales overseas

Traceability system chart

Blank : Not attached
T : Traceability system chart

Inspection report / Calibration Certificate

Blank : Not attached
X1 : Inspection report
X2 : Calibration Certificate

Unit of display

Blank : kPa
M : MPa
H : mmHg※1
W : Selectable (bar, psi, inch Hg, kPa, MPa according to the pressure range)※2

LIST OF MODEL NUMBERS

〈Non-corrosive gas only〉

Pressure reference		Gauge		
Rated pressure range (kPa)		- 10 ~ 10	- 100 ~ 100	- 100 ~ 1000
Model number	Unit of display : kPa	PG-100N-101R-**	PG-100N-102R-**	PG-100N-103R-**
	Unit of display : MPa	—	—	PG-100N-103R-M**
	Unit of display : mmHg	PG-100N-101R-H**	PG-100N-102R-H**	—
	Unit of display : Selectable	PG-100N-101R-W**	PG-100N-102R-W**	PG-100N-103R-W**

※Please refer to the LIST OF MODEL NUMBERS when placing orders.

PG-100N

PRESSURE GAUGES

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 103R-M	
	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	35 ~ 85 (No condensation)		
	Storage temp.	°C	− 20 ~ 70 (Atmospheric pressure, humidity 65 %RH maximum)		
	Pressure medium		Non-corrosive gases		
	Pressure port		M5メネジ 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		− 10.00 ~ 10.00	− 100.0 ~ 100.0	− 100 ~ 1000 − 100 ~ 1000	
Display cycle		Approx. 4 times/s			
Integrated accuracy (at 0 ~ 50 °C)		± 1.5 %F.S. ± 2 digits	± 1.0 %F.S. ± 2 digits		
Resolution		1 digit			
Analog output	Power supply (External supply)	5 ± 0.5 V DC 5 mA maximum			
	Output voltage	mV	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			
	Accessories	Attachments : Half union (for a tube of ϕ 6 O.D.), and, Barb fitting (for a tube of ϕ 4 I.D.), one piece each. 2AAA dry batteries, strap			
	Option (Sold seperately)	PG-100N soft carrying case			

PG-100N

PRESSURE GAUGES

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)	101R-H	102R-H
	Rated pressure range kPa (mmHg)	$-10 \sim 10$ ($-75.0 \sim 75.0$)	$-100 \sim 100$ ($-750 \sim 750$)
	Maximum pressure kPa (mmHg)	20 (150)	200 (1500)
	Break-down pressure kPa (mmHg)	50 (375)	500 (3750)
	Operating temp. range $^\circ\text{C}$	0 ~ 50	
	Compensated temp. range $^\circ\text{C}$	0 ~ 50	
	Operating humidity % RH	35 ~ 85 (No condensation)	
	Storage temp. $^\circ\text{C}$	$-20 \sim 70$ (Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium	Non-corrosive gases	
	Pressure port	M 5 female	
	Net weight g	Approx. 100	
	Power	Lithium battery DC 1.5 V $\times$ 2 Battery life 1000 h minimum	
Display	No. of digits	3 1/2	
	Display element	LCD	
	Rated display range(mmHg display)	$-75.0 \sim 75.0$	$-750 \sim 750$
	Display cycle	Approx. 4 times/s	
	Integrated accuracy (at $25^\circ\text{C} \pm 25^\circ\text{C}$)	$\pm 1.5\% \text{F.S.} \pm 2 \text{ digits}$	$\pm 1.0\% \text{F.S.} \pm 2 \text{ digits}$
	Resolution	1 digit	
Analog output	Power supply (External supply)	$5 \pm 0.5 \text{ V DC } 5 \text{ mA maximum}$	
	Output voltage mV	$0 \sim \pm 1.000 \text{ V}$ ※Proportionate to display value	
	Output accuracy / Resolution	$\pm 10 \text{ mV} / 1 \text{ mV}$	
	Output resistance	Approx. 10 k Ω	
	Response	Approx. 10 ms	
	Additional function	Auto power off , Display hold, Battery replacement display	
	Accessories	Attachments : Half union (for a tube of $\phi 6 \text{ O.D.}$), and, Barb fitting (for a tube of $\phi 4 \text{ I.D.}$), one piece each. 2AAA dry batteries, strap	
	Option (Sold separately)	PG-100N soft carrying case	

PG-100N

PRESSURE GAUGES

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)

