

HANDY MANOMETER **PG-100**

CE (Compliance with EMC Standards) **INSTRUCTION MANUAL Ver.3.1** Thank you very much for your purchase of our products. This instruction manual is prepared for your proper use of the product.

> For more detailed information please ask for the nearest distributor or the following sales center.

NIDEC COPAL ELECTRONICS CORPORATION

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§ 1. HANDLING NOTES

CAUTION This caution mark describes when there is a possibility that user may suffer from damage or physical damage may occur if the product is used improperly.

CAUTION

- (1)The each attachment fitting torque to the pressure port should be less than 1 N \cdot m.
- (2)Available media to be measured is air or non corrosive gas only.
- The another media , i.e. water or corrosive gas/liquid may damage the internal structure and cause malfunction.
- (3)Applied pressure must be less than the specified maximum pressure.

(4)Internal battery

- ①Replace battery with Toshiba Battery Co.,Ltd./ERVM3.6V/ lithium battery only. Use of another battery may present a risk of fire or explosion. If you need replace battery, please place an order with us.
- 2 When "LOBAT" sign is displayed, the battery should be replaced.
- (3) The battery used in this device may present risk of fire of chemical burn if mistreated. Do not recharge, disassemble, heat above 100°C (212°F), or incinerate.
- Dispose of used battery promptly. Keep away from children. Do not disassemble and do not dispose of in fire.
- (5)The only pH neutral detergents should be used to clean the body.
- The solvents such as thinners, benzine, etc. must be not used.

§ 2. TRANSPORTATION & STORAGE

- (1)The product, which is a precision instrument, must be taken special care not to be damaged by impact nor by being dropped when it is trasported and in storage
- (2)The product must be avoided in storage where is dusty, dripping and vibrated.



Unit

mmH₂O

kPa kPa

kgf/cm² kPa

kPa

mmHg

kΡa

mmHg

kPa abs mmHg abs

<u>kgf∕cm²</u> kPa

MPa

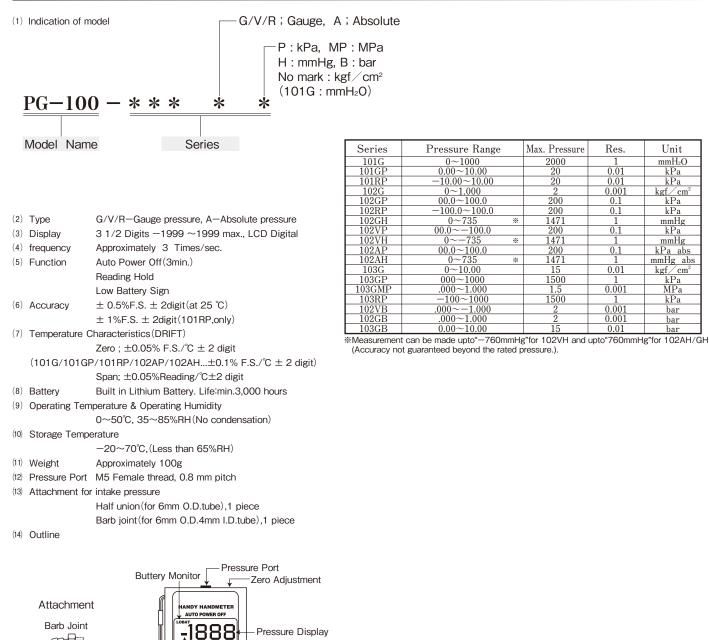
kPa

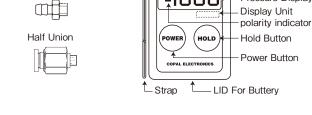
bar

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§3. SPECIFICATION





§4. PART NAMES AND FUNCTIONS

(1)	Pressure display	Measured pressure value is displayed in LCD.
(2)	Polarity Sign	Minus(-)
		Minus Sign is displayed when negative pressure is applied. Minus $(-)$
(3)	Pressure Port	The pressure intake.
(4)	Power Button	To turn on and off the power. If the button is pressed while the power is ON, the power turns OFF and vice versa.
(5)	Hold button	Measured pressure value is kept while "Hold"button is pressed.
(6)	Zero Adjustment Trimmer	For zero point adjustment
(7)	Battery Monitor	LOBAT sign is displayed in LCD when a battery is running out.



§5. HOW TO USE

- $(1)\;$ Set the attachment (Half Union or Barb Joint) into the pressure port.
- (2) Turn on the power. The display must be less than ± 5 counts.
 (No pressure applied)
 Adjust the zero point by Zero Adjustment Trimmer with a minus driver to have"000" on the Pressure Display.
- ▲Do not adjust the zero point of 102AP/102AH because it is calibrated to a vacuum.
 (3) Set a tube into the attachment Available tube size and material are as follows ; For Half Union ; ¢ 6mm 0.D.in Nylon or Urethane
- (4) Apply the pressure to be measured. The value is displayed while the Hold Button is pressed, the value is kept.
- (5) The power can be turned off by pressing the Power Button or by keeping the power ON over three minutes. The latter is an additional function "auto power off"

§6. WARRANTY

Nidec Copal Electronics warrants the products for the period of one year after the date of the customer's receipt. We will repair the troubled products caused by our improper designing and/or production control at our cost. Our warranty is limited to the products only, not on another damage that is caused by the product malfunction.

Please note that the repairing cost resulted from the following matters are out of our responsibility.

- (1)Trouble and damage caused by mishandling or careless usage against the handling manual.
- (2)Trouble and damage caused by improper remodeling, adjustment or repair.
- (3)Trouble and damage caused by natural disaster, fire or any other irresistible force.

(4)Replacement of attachments.(Half Union and Barb Joint).