GC63 Battery Type Digital Differential Pressure Gauge

For gas measurement (Featuring silicone diaphragm)

Overview

Battery type digital differential pressure gauge requires no wirings for easy installation and field monitoring for applications include HVAC and semiconductor machinery. Optionally available external power supply adds comparator output for various applications including filter clogging monitoring.

Features

- •17mm large LCD (3 1/2 digit)
- Analog bar graph to easily recognize measurement status.
- •Comparator output with external power cable (Option)
- •Filter, Peak hold display, and Zero adjustment

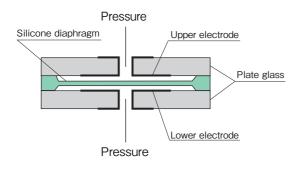


Features of sensor

Silicon Capacitive (SC) Sensor

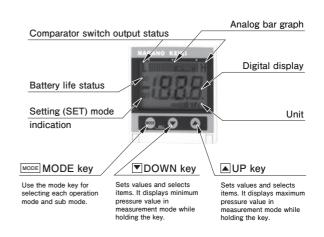
Miniaturized sensing part designed with silicon diaphragm having less moving parts contributes for excellent vibration proof and shock resistance.





Function

- •Analog bar graph to easily recognize measurement
- •When using the external power source, a comparator output is available (Option).



Specifications 1

Item		Description			
Media		Gas (Dry air and nitrogen gas) No water or dusts should be contained.			
Installation environment		Install in location where no gases or liquids may exist that have the potential to become flammable or ignitable under normal operating condition			
Mounting		Surface mounting			
Process connection		G1/8			
Wetted parts		Silicon, aluminum, silicone, glass and ABS			
Differential pressure range		0 to 50Pa → 0 to 5kPa, ±50Pa → ±500Pa Refer to pressure range table			
Maximum allowable pressure		50kPa			
Accuracy		Differential pressure display accuracy: ± (1.0%F.S.+1digit) at 23°C (Differential pressure range: 1kPa and over), ± (2.0%F.S.+1digit) at 23°C (Differential pressure range 500Pa and under)			
Square root operation accuracy (GC63-\(\square \)2)		±0.5%F.S. (Within 5 to 100%F.S.)			
Square root display (GC63-□□2)		0 to 1999 (Decimal point position and the maximum display value can be altered)			
Display		3 1/2 digit, 17mm LCD LCD Analog bar graph (21 Segment)			
Display update rate		1s			
Units of display		Differential pressure display (GC63-□□1) Pa, kPa Square root display (GC63-□□2) (LCD Pressure unit display is disappeared)			
Battery		AA Alkaline Batteries (LR6) ×2			
Battery life		Continuous operation Approx. 2 years Battery life status indication available			
External power source and output cable (Option)		External power source 24V DC 5mA Maximum One-comparator output N channel opening drain (30V DC 80mA Maximum) Response: Within 2s Operation mode: Window comparator Deadband: 1%F.S. fixed Operation display: H, L display			
Function	Filter	1s, 2s, 4s (Moving average)			
	Error indication	Over pressure, Outside of effective range for the zero adjustment			
	Hold	Display of peak and bottom values			
	Others	Zero adjustment, Key lock			
	Warning display	Battery life status indication available			
Operating temperature		0 to 40°C (Non-Freezing)			
Operating humidity		35 to 85%RH (Non-Condensing)			
Storage temperature		-10 to 50°C (Non-Freezing)			
Allowable leak rate		1.7×10 ⁻⁴ Pa·m³/s *1			
Enclosure		Indoor use (IP40 IEC Standard)*2			
Case materials		ABS			
Weight		Approx. 130g (Include battery)			
Accessory		Hexagon socket head plug, AA Alkaline Batteries Unit label (×10, ×100, ×1000, m/s, m³/min, m³/h) ···with part number GC63-□□2			

^{*1} This product is NOT suitable for use with leakage test requiring strict measurement of leakage amounts.

^{*2} When the front cover is closed.

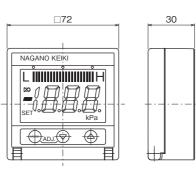
Specifications2

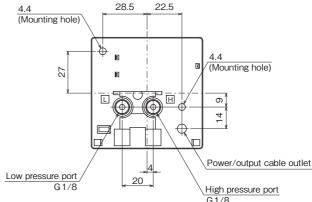
Differential pressure range, display digits, accuracy and temperature coefficient:

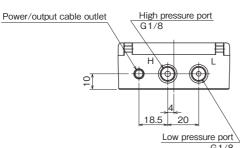
Differential n	koooliko kobao	LCD Display digit		Accuracy	
Differential pressure range		Pa	kPa	Display accuracy	Temperature coefficient
0 to 50Pa	±50Pa	50.0 (±50.0)		±(2.0%F.S.+1digit) at 23℃	±0.2%F.S./°C (Zero/Span)
0 to 100Pa	±100Pa	100 (±100)			
0 to 200Pa	±200Pa	200 (±200)			
0 to 500Pa	±500Pa	500 (±500)			
0 to 1kPa			1.00	L (4.00/ E.O. L4 -1; -;t-)	±0.1%F.S./°C (Zero/Span)
0 to 2kPa			2.00	±(1.0%F.S.+1digit) at 23℃	
0 to 5kPa			5.00	at 250	

- * Negative mark (-) is displayed when the pressure measured at high pressure port (H) is lower than the pressure measured at low pressure port (L).
- st Square root extraction (\pm bidirectional range is not available.)

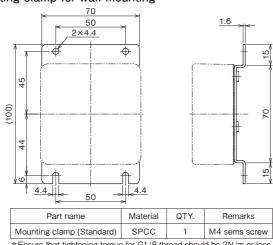
Dimensions 1



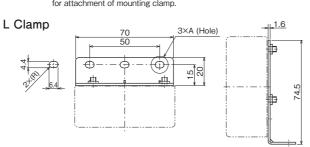




Mounting clamp for wall mounting

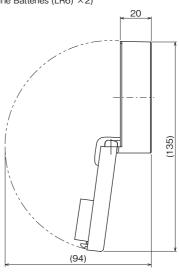


^{*}Ensure that tightening torque for G1/8 thread should be 2N/m or less for attachment of mounting clamp.



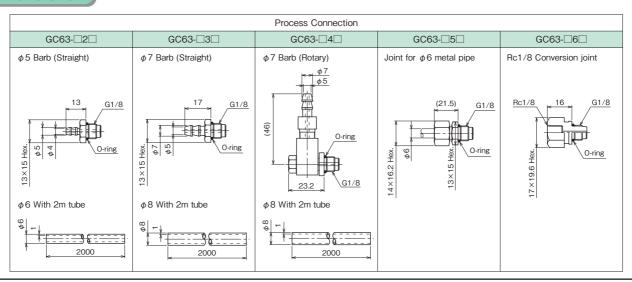
Movable range of front cover for battery exchange (AA Alkaline Batteries (LR6) $\times 2$)

Unit: mm



^{*}There are process connections on back and side of the unit (H and L). After connecting to process connections, unused pressure port must be covered by included hexagon socket plug. Ensure that tightening torque for G1/8 thread should be 1N/m or less.

Dimensions2



Model number configuration

The product can't be used for corrosive, flammable gas and fluid measurements.

Please specify the model, each requiring specification and differential pressure range to order.

