

GC61 Digital Pressure Gauge

OUTLINE

This is a digital pressure gauge with built-in highly reliable vapor-deposited semiconductor pressure sensor. It can be used to monitor and control the oil pressure, water pressure, and other pressure lines in various industrial machines and facilities. A digital display and transmitter + switch are compactly integrated, and loop check, scaling check, and other intelligent functions are provided.

FEATURES

- ·Vapor-deposited semiconductor pressure sensor makes it extremely durable and stable. Reliability is also superb because the sensor body and socket are welded.
- · A bright, easy-to-read 4-digit LED display is used. The case construction has cleared IP65 (dust-proof, jet-proof).
- •The GC61 can be used as a display, transmitter, and switch. Loop check, scaling, and other intelligent functions are also provided.

SPECIFICATION 1

Fluid:

Air, water, oil (gases and liquid do not corrode the connection)

Operating environment:

Places where there are no inflammable liquids or gases which may cause ignition or explosion under normal conditions.

Mounting:

Vertical mounting or horizontal mounting

Connection:

R1/4

Wetted parts materials:

Sensor SUS630 (17-4PH) +SUS316

Pressure range:

0~0.5MPa→0~50MPa -0.1~0.5MPa→-0.1~2MPa

Max. allowable pressure:

Twice the pressure range (For 35MPa or higher pressure, 1.5 times the pressure range.)

Accuracy:

Display accuracy $\pm (1\% \text{ F.S.} + 1 \text{ digit})$

Temperature coefficient ±0.1% F.S./℃ (Zero point and span)

Display:

Display type 4-digit LED display (character height 8mm)
Display period 0.2s

Display units:

MPa

Power source:

12~24V DC \pm 10% (15~24V DC \pm 10% 4~20mA output)

Current consumption:

30mA or less (50mA or less 4~20mA output)

Comparator output:

NPN open collector (30V DC 80mA max.)

Response: 5ms or less

Dead band: Hysteresis mode: Variable

Window comparator mode: 1%F.S. fixed

Delay: 0~2.00s (Both ON and OFF)

Operation lamp:

Red LED (OUT1, 2) Lit when ON

Analog output: (Option)

 $4\sim$ 20mA DC (Load resistance 400 Ω or less)

Or 1 \sim 5V DC (Load resistance 10k Ω or over)

*When 4~20mA DC was selected; a 15V DC or greater power source must be used.

Output accuracy: ±1% F.S. Response time: 50ms or less

Scaling function:

Indicated value, analog output

Loop check function:

Comparator output, analog output

Filter function:

25ms, 250ms, 2.5s, 5s, 10s

Self check functions:

Over pressure, Over current, Except zero adjustment error display

Hold function:

Peak value. Bottom value indication

Other functions:

One touch zero adjustment, Key lock function

Operating temperature range:

-10~50°C (There shall be no condensation and freezing.)

Operating humidity range:

35~85%RH (There shall be no condensation.)

SPECIFICATION 2

Storage temperature range:

-20~60°C (There shall be no freezing.)

Case material:

Front case PC/ABS (UL-94, V-0)

Rear case ADC12 Case construction:

IP65 (with atmosphere opening hole)

Weight:

Vertical mounting 175g (including 2m cable)
Horizontal mounting 155g (including 2m cable)

Pressure range and maximum display value for each unit:

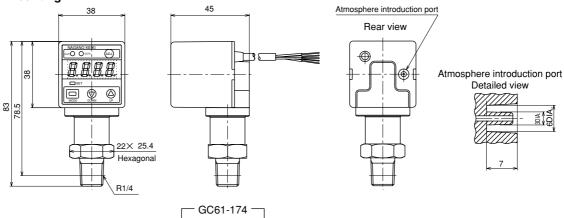
Pressure range (MPa)	Max. display value
	MPa
0~ 0.5, -0.1~0.5	0.500
0~ 1.0, -0.1~1.0	1.000
0~ 2.0, -0.1~2.0	2.000
0~ 3.5	3.50
0~ 5.0	5.00
0~10	10.00
0~20	20.00
0~35	35.0
0~50	50.0

^{*} Minus symbol is displayed for compound.

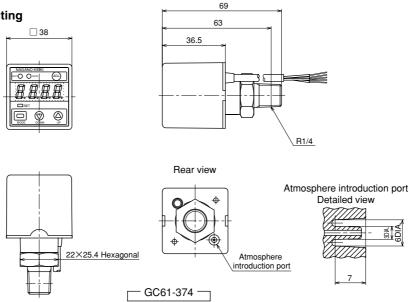
DIMENSIONS

(Unit: mm)

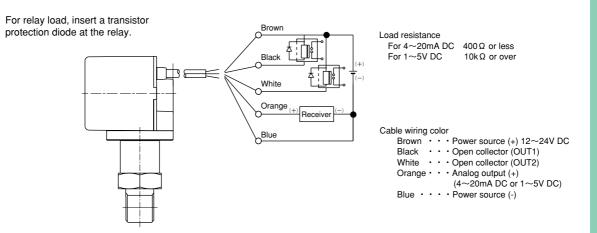
Vertical mounting



Horizontal mounting

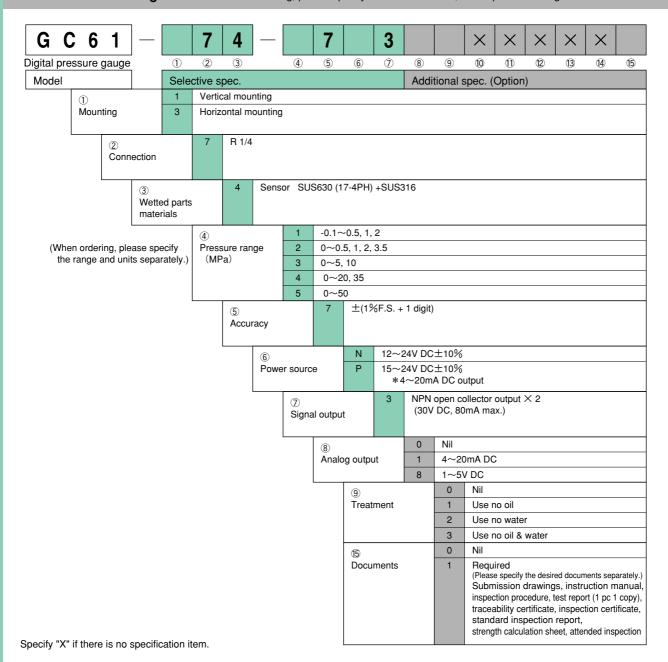


WIRING



Model number configuration

For ordering, please specify the model number, each specs and range.



® NAGANO KEIKI CO., LTD.

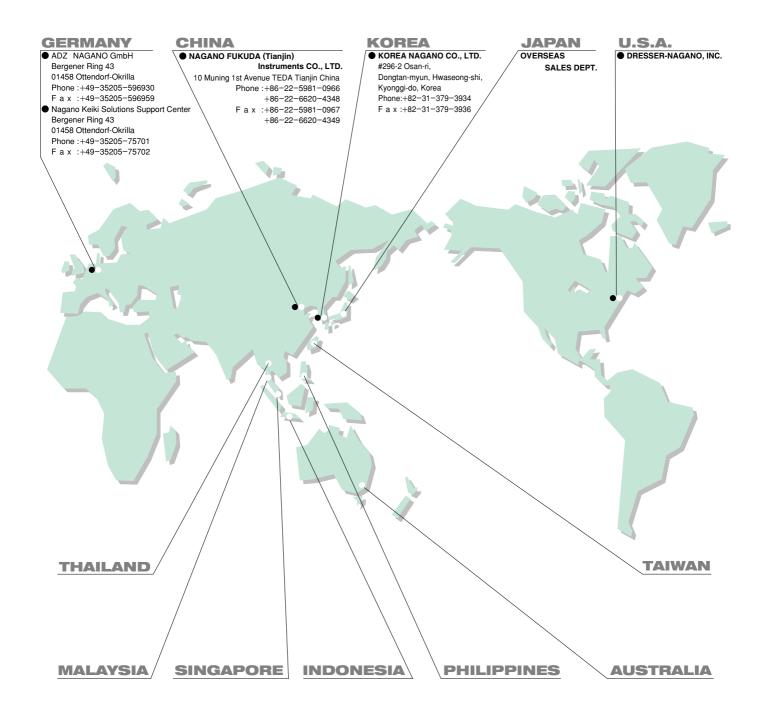
OVERSEAS SALES DEPT

: 1-30-4, HIGASHIMAGOME OHTA-KU, TOKYO, JAPAN

Phone : +81-3-3776-5328 F a x : +81-3-3776-5447

E-mail: overseas_sales_dept@naganokeiki.co.jp

URL: http://www.naganokeiki.co.jp/



● OVERSEAS PLANT
○ OVERSEAS SALES NETWORK

Gets ISO 9001, ISO 14001, ISO / TS 16949 Certification

The contents in the catalogue are subject to change without notice.

100% Recycled Paper. PRINTED IN JAPAN '06.3.I (N)