GC88 Digital Indicator GC98 • 95 Digital Meter Relay

Overview

We offer a digital indicator series line-up with easy-to-read digital indication and alarm functions, easy wirings available for our various types of mating pressure transmitters and temperature transmitters.

Features

[GC88 Digital Indicator]

- Loop-powered LED indication by simply connect the indicator in series with the 4 to 20 mA loop. Now additional electrical power supply is needed for the indicator.
- 24 x 48 mm DIN size with compact and lightweight

[Digital Meter Relay]

- GC98 (24 x 48 mm size)
 - Series of mounting up to 6 indicators is available.
 - Simultaneous indication of measured value and setup value
- GC95 (48 x 96 mm size)
 - · 85 to 264V AC free power source
 - · 4 contacts for alarm output



GC88



GC98



GC95





Specifications 1

| Product name | | Digital indicator | Digital meter relay | |
|--------------------------------|------------------|--|--|--|
| Model | | GC88 | GC98 | GC95 |
| Size / Externals | | 48 mm (€ | 48 mm 48 mm GE | 96 mm |
| Applications | | Simply connect the indicator to transmitter in series with the 4 to 20 mA loop accommodating existing system | Suitable for checking alarm setup value and measurement value at the same time | Large LED indication where easy-to-read indication is preferable. For applications where more than two alarms are required. |
| Functions and features | | Operates with 4 to 20 mA DC input signal Space saving with 40 mm depth LED indication | Simultaneous indication of measured value and setup value Series of mounting (6 pcs) | Large LED indication (20 mm) Relay contact output (4 Contacts) Series of mounting (6 pcs) |
| | Number of digits | 3.5 digits | 4 digits | 4 digits |
| Indication | Digit | -1.0.0 to 1.9.9.9 | -1.9.9.9 to 9.9.9.9 | -1.9.9.9 to 9.9.9.9 |
| indication | Indication type | Red LED indicator | Green and red LCD indicators | Red LED indicator |
| | Character height | 10.16 mm | 10 mm | 20 mm |
| Power source | DC | Operates with 4 to 20 mA DC input signal | 24V DC±10% | 24V DC±10% |
| | AC | | | 85 to 264V AC (50/60Hz) |
| Land Advantage | Voltage | | 1 to 5V DC (1MΩ) | 1 to 5V DC (1MΩ) |
| Input signal (Input impedance) | | | 0 to 5V DC (1MΩ) | 0 to 5, 0.5 to 4.5V DC (1MΩ) |
| (inpat impedance) | Current | 4 to 20 mA DC | 4 to 20 mA DC (250Ω) | 4 to 20 mA DC (250Ω) |

Specifications2

| Product name | | Digital indicator | Digital meter relay | |
|---|----------------------|---|--|--|
| Model | | GC88 | GC98 | GC95 |
| Output signal | Contact | | Relay contact (Independent 2 outputs) (Rating: 240V AC, 2A) | Relay contact (Independent 4 outputs) (Rating: 240V AC, 1 to 2A) |
| | Analog | | | 4 to 20mA DC (600 Ω and under) (Option) |
| Power supply | 5V DC | | | 5V DC±10% (5mA max.) |
| rower sup | 24V DC | | 24V DC±10% (25mA max.) | 24V DC±10% (25mA max.) |
| Sampling rate | | 2.5 Samples/sec. | 2 Samples/sec. | 2 Samples/sec. |
| Accuracy (Temperature range) | | ±(0.1%F.S.+1digit) (23°C±5°C) | ±(0.1%F.S.+1digit) (23°C±5°C) | ±(0.1%F.S.+1digit) (23°C±5°C) |
| Temp | erature coefficient | ±(150ppm F.S./°C+1digit) | ±(60ppm F.S./°C+1digit) | ±(60ppm F.S./°C+1digit) |
| Current consumption | | DC power 22 mA and under | DC power 100 mA and under (24V DC) | DC power 160 mA and under (24V DC) |
| | | | | AC power 7VA and under (100V AC) |
| Withstand voltage (Between terminal and housing) | | Between input and ground: 500V DC for 1 minute | Between input and ground: 1000V AC for 1 minute Between power and ground: 1500V AC for 1 minute | Between input and ground: 1000V AC for 1 minute Between power and ground: 1500V AC for 1 minute |
| Insulation resistance (Between terminal and housing) | | | Between input and ground: 500V DC 20MΩ Between power and ground: 500V DC 20MΩ | Between input and ground: 500V DC 20MΩ Between power and ground: 500V DC 20MΩ |
| Operating temperature | | 0 to 50℃ | 0 to 50°C | 0 to 55℃ |
| Operating humidity | | 35 to 85%RH (Non-condensing) | 20 to 85%RH (Non-condensing) | 20 to 85%RH (Non-condensing) |
| Weight | | Approx. 30g | Approx. 83g | Approx. 235g |
| | Scaling | Analog setup: -100 to 1999 | Digital setting: -1999 to 9999 | Digital setting: -1999 to 9999 |
| | Out of range display | Message displayed | Message displayed | Message displayed |
| Function | Alarm setting | | Digital setting: Arbitrary upper and lower limit | Digital setting: Arbitrary upper and lower limit |
| | Filter (Damping) | | 0, 1 to 100 Seconds | 0, 1 to 100 Seconds |
| Applicable standard | | CE marking (GC98, GC95: U.L. and CSA Listed) | | |
| Panel-cutout (mm) | | 45 ¹ / ₂₀ | ⟨Separate installation⟩ 25 | 30 - 35 + 30 - 35 + 30 - 35 + 35 + 35 + 35 + 35 + 35 + 35 + 35 |

*1 OUT1/2 is 1A, OUT3/4 is 2A.

~Ideal for use in combination with our various transmitters~

- *The GC88 dedicated for 2 wire system operates through power supply connected to mated transmitter.
- *The GC9□ capable of electrical power supply is available for easy wiring just connecting to transmitter.

~Applicable sensors (Typical applications)~



KL14 Differential pressure transmitter



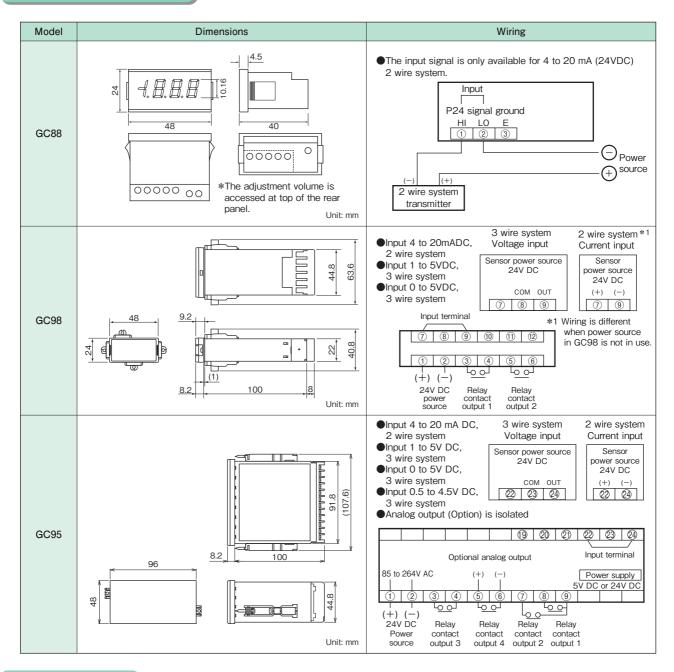
ZT15
Pressure transmitter

TH7□ Temperature transmitter



^{*2} When analog output is selected, OUT4 is allocated for terminal board (3 Contact outputs)

Dimensions and wiring



Other Products

Digital Indicator / Digital Meter Relay

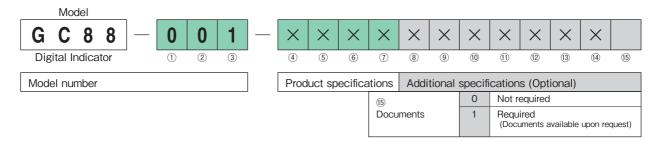
Contact us for other applications

| Model | GC68 | GC94 | GC97 |
|--------------|---|---|--|
| Application | ①Analog output scaling ②With loop check function | ①Check alarm setting with a single operation ②Sensor power source isolation | Directly connected input/output cables (Not terminal board) Installation in a space in limited space Sensor power source isolation |
| Size | 48(H)×48(W)×53(D)mm | 48(H)×96(W)×95(D)mm | 24(H)×48(W)×70(D)mm |
| Power source | 24V DC | 24V DC | 24V DC |
| | | 100, 110, 200, 220V AC | |
| Input | 1 to 5V DC, 4 to 20 mA DC | 1 to 5, 0 to 5V DC, 4 to 20 mA DC | 1 to 5, 0 to 5V DC, 4 to 20 mA DC |
| Output | Relay output x 2 (Independent) | Open collector or relay contact x 2 | Relay output x 2 (Independent) |
| | Analog 0 to 5V, 4 to 20 mA | Analog 0 to 5V, 1 to 5V, 4 to 20 mA variable | |
| Appearance | H H H H H | 1999 | |

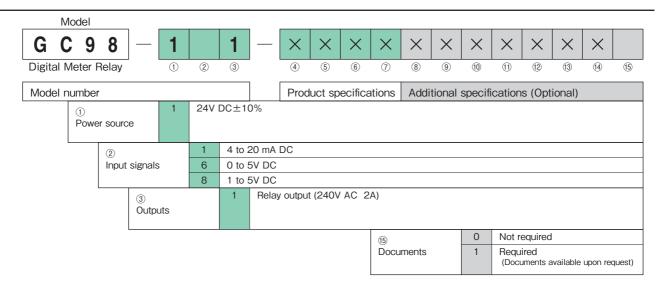
Digital Indicator / Digital Meter Relay

Model number configuration

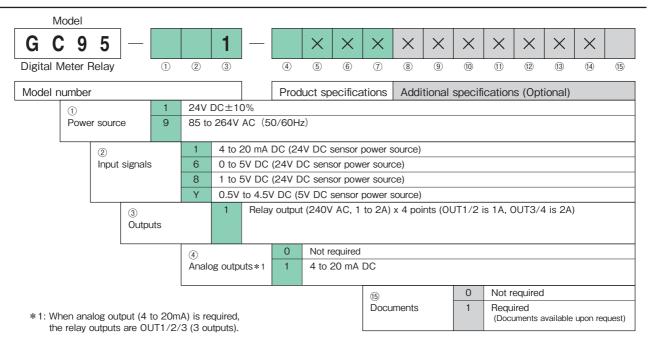
For ordering, please specify the model number and each specs.



^{*}Make sure to sepcify maximum and minimum pressure values when ordering.



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*Specify code "X" to refer N/A