

펄스 지시 경보계

TG3500 Series - Pulse Indicator With Alarm

Feature

- The response is fast •
- 4 point alarm & Dead band set .
- Isolation current output (DC 4.00~20.00mA) • & Output scaling



SPECIFICATION

| mA input | DC 4.00 ~ 20.00 | Ma | Isolation current output(Option) | | |
|--|------------------------------|--------------------------|------------------------------------|----------------------------------|--|
| Pulse input | | | Current | DC 4.00~20.00mA | |
| -> Low level voltage | DC 0.7V or less | | Maximum load resistance | 600 Ω | |
| -> High level voltage | DC 1.5V or mor | e | Isolation resistance(Input-Output) | 100M Ω or more (DC 500V) | |
| -> Max high voltage | DC 30V | | Pulse output | | |
| -> Input resistance | 150k Ω | | Open collector output | Max 100Hz, DC 50V/within 30mA | |
| Range Code | Input | Minimum setting range | Voltage output | Max 100Hz, Lo(DC 0V), Hi(DC 24V) | |
| Range 0 | 4.00~20.00mA | - | Relay contact output | Max 5Hz same as alarm | |
| Range 1 | 0.000~1.000Hz | 0.100Hz | Alarm Output | | |
| Range 2 | 0.000~9.999Hz | 1.00Hz | Contact output type | Normal open, Normal close | |
| Range 3 | 0.00~99.99Hz | 10.0Hz | Max switching power | 60W 125VA | |
| Range 4 | 0.0~999.9Hz | 100Hz | | | |
| Range 5 | 0.0000~9.999kHz | 1.000Hz | Max switching voltage | DC 220V, AC 250V | |
| Range 6 | 0.00~40.00kHz | 10.00kHz | Max switching current | DC 2A, AC | |
| * Others is order is mad | le | | Max Carrying current | DC 3A, AC | |
| Measuring and display o | Cycle Minimum 1S. | | Ambient temperature & Humidity | | |
| More short according to | input frequence | | Operation | -10~50℃, 10~90% | |
| CMRR(Common Mode Re | jection RATIO) 140dB or more | | Storage -20~70°C, 5~95% | | |
| NMRR(Normal Mode Reje | ection Ratio) 60dB or more | | Power supply | | |
| Moving average filter by | y selection | | Voltage | AC 85~265V(45~65Hz) | |
| None, Average 4, Averag | e 8, Average 16 | | | DC 24V(Option) | |
| Built-in sensor power so | DC 12V 30mA | ±0.5% | Power consumption | Max 4VA | |
| Accuracy | \pm 0.5% Full Sca | le | Isolation resistance | $100 M \Omega$, DC 500V | |
| isolation voltage output | (Option) | | | (FG-Input, FG-Power, | |
| Voltage DC 0 ~ 10V | | | | Power-Input, Input-Output) | |
| Minimum load resistance $1k\Omega$ or more | | | Etc | | |
| Insolation resistance(Inpu | it - Output) 100MΩ or more | e(DC 500V) | Weight | 500g | |
| | | | Mounting | Panel mount | |
| | | | | | |



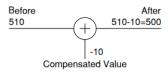
Sensor compensation function

The function is useful for compensating error by long sensor

line or changed zero point by aged sensor

Ex) Before sensor adjust = 510°C After sensor adjust = measured value + compensated value





Pulse output scaling function

If input is mA(Range 0), it sets pulse number per hour when

full scale(20mA)

Ex) Setting 3600, it outputs 3600 pulse a hour(1 pulse a second) when 20mA current inputs. If input is pulse (Range : 1~6), it sets a rate of input versus output.

Ex) Setting 100, It output 1 pulse when 100 pulse inputs.

Function (Volt, mA type)



Pass the input as it is.

Used for general input type and linearity input.

root

Pass the input after $\sqrt{}.$ Used for flow rate by orifice.

[L INF]

Like level measuring, when it does not display

measuring under zero, it always can display zero by using limit function.

Alarm function

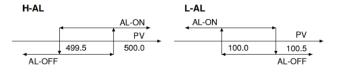
Alarm type : High, Low

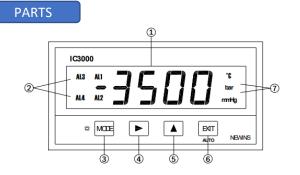
according to scale and input range.

Ex) AL-1 : High alarm value 500.0, Alarm dead band setting 0.5

The high alarm(AL-1) is ON when the present value(PV) is 500.0 or more, and OFF when 499.5 or less. The high alarm(AL-2) is OFF when the present value

(PV) is 100.5 or more, and ON when 100.0 or less.





- ① Measured value display
- 2 Alarm condition display

③ MODE KEY : Storage the set data and

change the operation menu

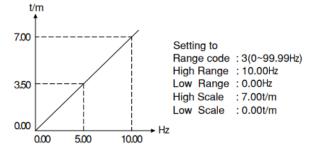
- ④ ➡ KEY : Enter into the data setting mode and modify the changed location
- 5 r KEY : Change the data value
- 6 EXIT KEY : Out of mode
- 7 Unit

MAJOR

Display scaling function(mV, Volt, mA only)

This function changes and sets the display value according to scale and input range.

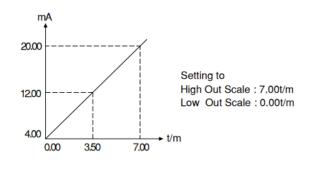
Ex) In case of input range 0.00~10.00Hz and Level 0.00~7.00t/m



Current output scaling function

This function is that 4.00~20.00mA output value is changed by output scale.

Ex) In case of display value 0.00~7.00t/m, Output 4.00~20.00mA





Filter function

Filter is moving average filter and it has 4 kinds of function.

(NONE, 4, 8, 16, 32)

It displays sample value on an average the in recent input value 4,8,12,16,32

In case of setting the filter function, the response will be delay.

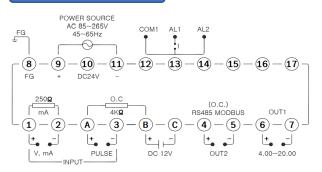
Do not use filter when high speed response is needed.

When output and display value are changed by irregular input, it is possible to get regular input and display value by using filter function.

ORDERING

| TG35 | | | - | | | Description | | |
|-----------------------|---|---|--------------|----------------|--------|--|--|--|
| Input | 0 | | | | | Pulse Input | | |
| | 1 | | | | | DC 4.00 ~ 20.00mA Input | | |
| 0 1 2 2 3 4 5 5 | | | | None | | | | |
| | | 1 | | | | Isolation currunt output DC 4.00 ~ 20mA | | |
| | | 2 | | | | Isolation currunt output DC 4.00 ~ 20mA + Relay Contact | | |
| | | 3 | | | | Isolation currunt output DC 4.00 ~ 20mA + OC Pulse Output | | |
| | | 4 | | | | Isolation currunt output DC 4.00 ~ 20mA + Voltage Pulse Output | | |
| | | 5 | | | | Isolation currunt output DC 4.00 ~ 20mA + Relay Contact Pulse Output | | |
| | | 6 | | | | Etc(Consult to the factory) | | |
| Power 0 | | | AC 85 ~ 265V | | | | | |
| | | 1 | | DC 24V(Option) | | | | |
| | | | | | 0 | None | | |
| Interface | | | | 1 | RS-485 | | | |
| | | | | 2 | Etc | | | |





* mA Input(+ -) Needs 250 Ohm 0.05% 25ppm Resistance (1, 2 Pin)

TERMINAL

