



- Accuracy:  $\pm 0.1\%$  F.S.  $\pm 1$  digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)  
 $\pm 0.2\%$  F.S.  $\pm 1$  digit (AC)
- Measuring AC, DC Voltage / AC, DC Current / Potentiometer / Resistor / PT-100 / Load Cell)
- High brightness 0.8" LED display range: -19999~19999; decimal point selectable
- Display range programmable
- Max. Hold / Data Hold / Reset / 2~4 Alarms (Hi or Lo) programmable / Analog output (15 bit resolution) / RS-485 communication optional (The above options can exist together)
- High stability, non-flammable case (PC), high safety
- CE approval

## SPECIFICATION

|                             |                                                                                                                            |                            |                                                                                                               |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------|
| ◆ Accuracy:                 | $\pm 0.1\%$ F.S. $\pm 1$ digit (DC / Potentiometer / Resistor / PT-100 / Load Cell)<br>$\pm 0.2\%$ F.S. $\pm 1$ digit (AC) | ◆ Output Capability:       | Voltage Output: <20mA<br>Current Output: <10V                                                                 |
| ◆ Display Screen:           | High brightness red LED; 20.3mm(0.8")                                                                                      | ◆ Communication:           | RS-485 Modbus RTU mode                                                                                        |
| ◆ Sampling Cycle:           | 16 cycles / sec (AVG=1)                                                                                                    | ◆ Baud Rate:               | 38400 / 19200 / 9600 / 4800 bps                                                                               |
| ◆ Display Range:            | -19999~19999                                                                                                               | ◆ Parity Check:            | n.8.2. / n.8.1. / odd / even                                                                                  |
| ◆ Zero Adjustment:          | -19999~19999                                                                                                               | ◆ Temperature Coefficient: | 100ppm / °C (0~60°C)                                                                                          |
| ◆ Over Range Indication:    | doFL / ioFL or -doFL / -ioFL                                                                                               | ◆ Operating Temperature:   | 0~60°C                                                                                                        |
| ◆ Polarity Indication:      | Automatic with "-" indication                                                                                              | ◆ Operating Humidity:      | 20~90% RH (non-condensing)                                                                                    |
| ◆ Parameters Setting:       | Push buttons                                                                                                               | ◆ Storage Temperature:     | -10~70°C                                                                                                      |
| ◆ Back Up Memory:           | EEPROM                                                                                                                     | ◆ Storage Humidity:        | 20~90% RH (non-condensing)                                                                                    |
| ◆ Alarm Action:             | " $\geq$ (Hi) on" or "< (Lo) on"                                                                                           | ◆ Power Supply:            | AC/DC 100~240V; DC 22~60V                                                                                     |
| ◆ Alarm Hysteresis Range:   | 0~9999                                                                                                                     | ◆ Power Consumption:       | 8.5VA (all functions output)                                                                                  |
| ◆ Alarm Run Delay Time:     | 0~99 sec                                                                                                                   | ◆ Surge Test:              | 2KVac / 1min (Input / Power)                                                                                  |
| ◆ Relay Contact:            | AC 277V / 7A; DC 30V / 7A                                                                                                  | ◆ Input Impedence:         | Voltage: >2V for 20K $\Omega$ / V; $\leq 2V$ for >200M $\Omega$<br>Current: $\geq 0.2A$ at 100mV; <0.2A at 1V |
| ◆ Analog Output Resolution: | 15 bit                                                                                                                     |                            |                                                                                                               |
| ◆ Output Response Time:     | <250 msec (0~90%)                                                                                                          |                            |                                                                                                               |

## ORDER INFORMATION

DC5H-A - [Code 1] [Code 2] - [Code 3] - [Code 4] [Code 5] [Code 6]

| Code 1 | Input Type           | Code 2 | Voltage | Code 2 | Current | Code 2 | Potentiometer               | Code 2 | Resistor        | Code 2 | RTD (PT-100) | Code 2 | Load Cell    | Code 3 | Aux. Power    | Code 5 | Analog Output                        |
|--------|----------------------|--------|---------|--------|---------|--------|-----------------------------|--------|-----------------|--------|--------------|--------|--------------|--------|---------------|--------|--------------------------------------|
| D      | DC                   | V1     | 0~50mV  | A1     | 0~20uA  | P1     | 500 $\Omega$ ~10K $\Omega$  | I1     | 0~10 $\Omega$   | T1     | -50~50°C     | L1     | 1mV/V EX.5V  | A      | AC/DC100~240V | N      | None                                 |
| A      | AC AVG               | V2     | 0~5V    | A2     | 0~200uA | P2     | 10K $\Omega$ ~100K $\Omega$ | I2     | 0~100 $\Omega$  | T2     | -100~100°C   | L2     | 2mV/V EX.5V  | B      | DC 12V        | A      | 4~20mA                               |
| M      | AC TRMS              | V3     | 1~5V    | A3     | 0~2mA   | P3     | 100K $\Omega$ ~1M $\Omega$  | I3     | 0~1K $\Omega$   | T3     | -200~200°C   | L3     | 3mV/V EX.5V  | C      | DC 22~60V     | V      | 0~10V                                |
| P      | 3 Wire Potentiometer | V4     | 0~10V   | A4     | 0~20mA  | PO     | Option                      | I4     | 0~10K $\Omega$  | T4     | 0~600°C      | L4     | 1mV/V EX.10V | D      | DC 30~90V     | L      | Loop Power 15-30Vdc<br>4-20mA Output |
| I      | 2 Wire Resistor      | V5     | 0~36V   | A5     | 0~200mA |        |                             | I5     | 0~100K $\Omega$ | TO     | Option       | L5     | 2mV/V EX.10V |        |               | O      | Option                               |
| T      | RTD (PT-100)         | V6     | 0~300V  | A6     | 4~20mA  |        |                             | IO     | Option          |        |              | L6     | 3mV/V EX.10V |        |               |        |                                      |
| L      | Load Cell            | V7     | 0~600V  | A7     | 0~2A    |        |                             |        |                 |        |              | LO     | Option       |        |               |        |                                      |
| 2      | 2, 3 Wire Sensor     | VO     | Option  | A8     | 0~5A    |        |                             |        |                 |        |              |        |              |        |               |        |                                      |
| 4      | 4 Wire Sensor        |        |         | A9     | 0~10A   |        |                             |        |                 |        |              |        |              |        |               |        |                                      |
|        |                      |        |         | AO     | Option  |        |                             |        |                 |        |              |        |              |        |               |        |                                      |

\*\*1: 2 wire type offers excitation power DC24V for 2 wire (Loop Power) pressure, temperature, humidity sensors using.

2: Please specify the input signal and display value, inquiry salespersons for special type.

3: Load Cell type of excitation power DC5V can have 2 load cell in parallel; DC10V only can offer 1 load cell to use.

4: 3 Relay type only offers A(NormalOpen) output. O.C. (Open Collect) offers NPN of C.E. output.

| Code 4 | Alarm Output   |
|--------|----------------|
| N      | None           |
| R1     | 1 Relay        |
| R2     | 2 Relays       |
| R3     | 3 Relays       |
| R4     | 4 Relays       |
| O2     | 2 Open Collect |
| O3     | 3 Open Collect |
| O4     | 4 Open Collect |

| Code 6 | RS-485 |
|--------|--------|
| N      | None   |
| Y      | Yes    |

