

Features

- ① Display 5 1/2 digits (199999)
- ② Display color Red or Green (user selectable)
- ③ Sampling speed 50 times per sec
- ④ Exc supply 10V, 12V, 24VDC available (for the DB range)
- ⑤ Bright LED 20mm
- ⑥ Available four set points (HH, HI, LO, LL)



·DV Range (Direct Voltage Input)

Range	Measurement Range	Accuracy (23±3°C, 35 to 85%RH)	Input Impedance	Maximum Allowable Input
11	±199.999mV	±(0.03% of rdg + 15digit)	10 MΩ or less	±50V
12	±1999.99mV	±(0.02% of rdg + 10digit)		
13	±19.999V	±(0.03% of rdg + 10digit)	Approx. 1MΩ	±250V
14	±199.999V			

·2I Range (Direct Current Input)

Range	Measurement Range	Accuracy (23±3°C, 35 to 85%RH)	Input Impedance	Maximum Allowable Input
21	±199.999μA	±(0.04% of rdg + 40digit)	Approx. 1kΩ	±10mA
22	±1999.99μA		Approx. 100Ω	±20mA
23	±19.999mA	±(0.04% of rdg + 10digit)	Approx. 10Ω	±50mA
24	±199.999mA	±(0.06% of rdg + 10digit)	Approx. 1Ω	±500mA

·DB Range (Process Input)

Range	Measurement Range	Accuracy (23±3°C, 35 to 85%RH)	Input Impedance	Maximum Allowable Input
1V	1 to 5V (±5V)	±(0.04% of FS + 5digit)	Approx. 1MΩ	±250V
2A	4 to 20mA (±20mA)		Approx. 10Ω	±50mA
11	±199.999mV	±(0.03% of FS + 5digit)	10Ω or more	±50V

* The accuracy and resolution for Ranges 1V and 2A are the specifications at ±5V and ±20mA respectively.
 Sensor power (Isolated input): DC12V±10% 50mA, or DC24V±10% 25mA, or DC10V±10% 60mA
 * Sensor source voltage switched using sockets.

·Display Specifications

Main display section: Red / green 7 segment LED, height approx. 20mm
 Display range: -199999 to 199999

·Comparison Section Specifications

Comparison results: HH, HI, GO, LO, LL (5 points)
 Setting conditions: HH judgment value > HI judgment value > LO judgment value > LL judgment value

Comparative output type: Normal output, Zone output

Pattern Selection: Switching between 8 comparative setting value patterns possible using key panel or control terminals

Hysteresis: 4 point independent

Relay output: Contact capacity 1a contact, AC 250V/DC30V 1A (resistance load), Electrical life 50,000 times (rated load)

Minimum application load (as reference): 10mA (DC 5V)

Photocoupler output: Output rating DC 30V 20mA (MAX), output saturation voltage Max. 1.2V

·General Specifications

Operating temperature/humidity ranges: 0 to 50°C, 35 to 85% RH (non-condensing)

Storage temperature/humidity ranges: -10 to 70°C, 60% RH or less (non-condensing)

Power: AC 100 to 240V±10%, DC 12 to 48V±10%

Power consumption: Approx. 12VA max. (AC power), 6W max. (DC power)

External dimensions: 96mm (W) × 48mm (H) × 97.5mm (D) (without optional unit installed)

Weight: Approx. 200 to 300g

Insulation withstands Voltage:

AC 500V per minute between input terminal and each of the output, control terminal and sensor power source

AC 1500V per minute between power terminal and each of the input, output, control terminal and sensor power source (AC Power Supply)

AC 500V per minute between power terminal and each of the input, output, control terminal and sensor power source (DC Power Supply)

Insulation Resistance: Min. 100MΩ between the abovementioned terminals when DC 500V is applied

Memory Backup: E²PROM, Writing frequency: 10,000 times

Accompanying Items: Instruction manual

·Option Specifications

·External Control (Isolated input)

Number of terminals: 7 inputs

Functions: Start/Hold, Peak Hold, Digital Zero, Relay Reset, Pattern Selection 0, 1, 2

Input: No-voltage contact, NPN Open Collector Input

·BCD Output + External Control

BCD Output (Isolated input)

Output format: BCD code

NPN open collector input: DC 30V 10mA (MAX).

Output saturated voltage Max. 1.2V

TTL output: Positive logic TTL level (CMOS compatible), Fan-out 2

Output: BCD signal, print command (PC), pole (POL), over range (OVER)

Control Input: ENABLE

·External Control (Isolated input)

Number of Terminals: 7 inputs

Functions: Start/Hold, Peak Hold, Digital Zero, Relay Reset, Pattern Selection 0, 1, 2

Input: No-voltage contact, NPN open collector input

·Analog Output + External Control

Analog Output (Isolated input)

Output Type	Load Resistance	Accuracy (23±3°C, 35 to 85%RH)	Ripple
0 to 10V			
0 to 1V	10kΩ or more	±0.1% of FS	50mVp-p
1 to 5V			
4 to 20mA	550Ω or less		25mVp-p (at resistance of 250Ω)

Conversion System: D/A Conversion System

Resolution: 15 bit equivalent

Response Time: Approx. 80msec (10 → 90%, sampling rate 50 times/min, no moving average)

·External Control (input and isolation)

Number of terminals: 6 inputs

Functions: Start/Hold, Peak Hold, Digital Zero, Relay Reset, Pattern Selection 0, 1

Input: No-voltage contact, NPN open collector input

