SETPOINT COMPARATOR

AM-215

■ DC Voltage Meaurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AM-215-11	±99.99mV	Offset	100M ohm	±100V
AM-215-12	±999.9mV	±9999	100M ohm	±100V
AM-215-13	±9.999V	Fullscale	1M ohm	±250V
AM-215-1V	1 to 5V	±9999	1M ohm	±250V

Accuracy: ±0.03% rdg. ±2 digit (23˚C±5˚C)

■ DC Current Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AM-215-2A	4 to 20mA	Offset ±9999 Fullscale ±9999	50 ohm	±60mA

Accuracy: ±0.1% rdg. ±2 digit (23˚C±5˚C)

■ Specifications

● Measurement section

Input configuration: Single ended
Operation method: Dual slope
Input Bias Current: 50PA (Typ.)
Conversion rate: Max. 12.5/sec. (50Hz) or 15/sec. (60Hz)
Display: LED, 8mm (Red), 4 digits
Polarity: A "-" is displayed automatically
Overrange indication: When input exceeds the maximum display, oL or –oL flashes
Maximum display: ±9999 (4 digit)
Decimal point: Settable at any position (By pressing sheet switch)
Zero display: Reading "zero" suppression

● Comparison section

Control method: Computation by microcomputer
Setting range: –9999 to 9999
Conparison condition:
Measured value > High limit set-value – HI
Low limit set value ≦ Measured value ≦ High limit set value – GO
Low limit set value > Measured value – LO
Setting condition: Low limit set value < High limit set value
Hysteresis: 1 to 999 digit for each set point
Relay contact capacity: DC24V resistive road

● External control section

Digital zero: Short DZ terminal and COM terminal or level "0".
Then digital zero "ON".

■ Featuers

- HI and LO set-point
- Bright LED 8mm (Red)
- 1 to 5V, 4 to 20mA Measurement
- Power Supply DC24V ±20% (Isolated)
- Offset +/–9999 adjustable
- Fullscale +/–9999 adjustable

● Excition power supply section

Excition power supply: DC24C ±5%, 25mA

● Analog output section (impossible both of Analog output and RS-485 selected)

Output function: DC4 to 20mA or DC0 to 10V
Output specification

Type	Risistive load	Accracy	Ripple
4 to 20mA	0 to 250 ohm	±(0.5% of FS)	Less than 25mVp-p
0 to 10V	More than 10K ohm	±(0.5% of FS)	Less than 50mVp-p

● RS-485 output section (impossible both of Analog output and RS-485 selected)

Synchronous method: Start and stop
Communication method: 2-wire system half duplex (Polling and selecting)
Transmission speed: 19200bps/9600bps/4800bps/2400 bps
Start bit: 1 bit
Data length: 7 bit
Error detection: Even parity (BCC)
Stop bit: 2 bit
Character code: ASCII code
Transmission control: No protocol
Signal name used: Non-reversible output (+), Reversible (–)
No. of connectable meters: Up to 31 meters
Line of length: Up to 500m in total

■ Common Specifications

Memory backup: EEPROM (rewrite 100,000 times)
Operating temperature: 0 to 50˚C, 35 to 85%RH
Storage temperature: –20 to 70˚C, less than 60%HH
Power supply: DC24V ±20%
Power consumption: Approx. 4W
Dimensions: 24(H) × 48(W) × 87.5(D) DIN size
Weight: Approx. 100g
Dielectic strengh: Between power supply (0V), input terminal and each output terminal DC500V/1 min.
Between input terminal and each output terminal DC500V/1 min.
Between case, power supply, input terminal and each output terminal DC500V/1 min.
Insulation resistance: DC500V more than 100M ohm at above terminals.
Accessories: Instruction manual, setting procedure

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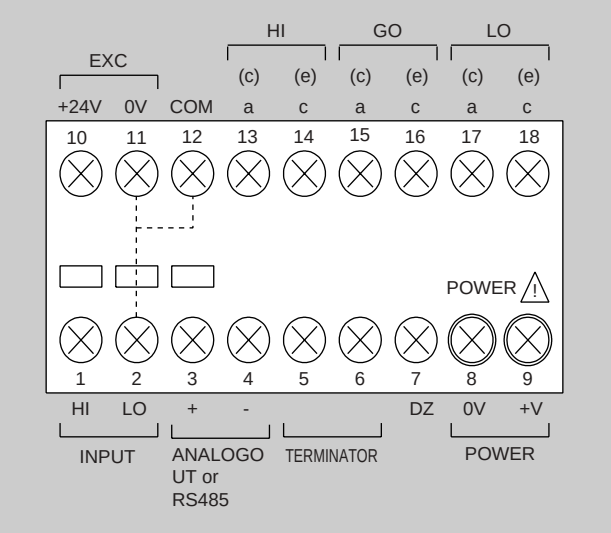
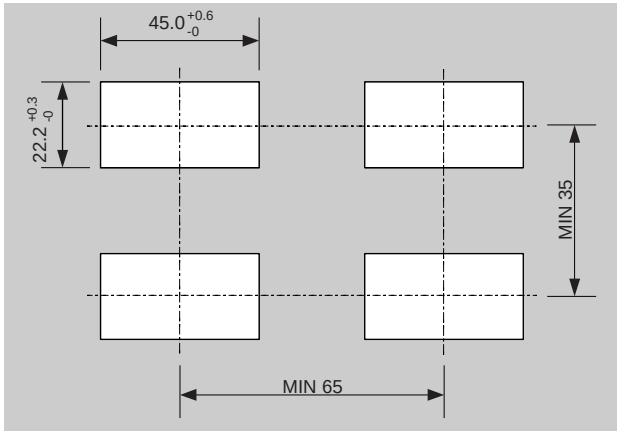
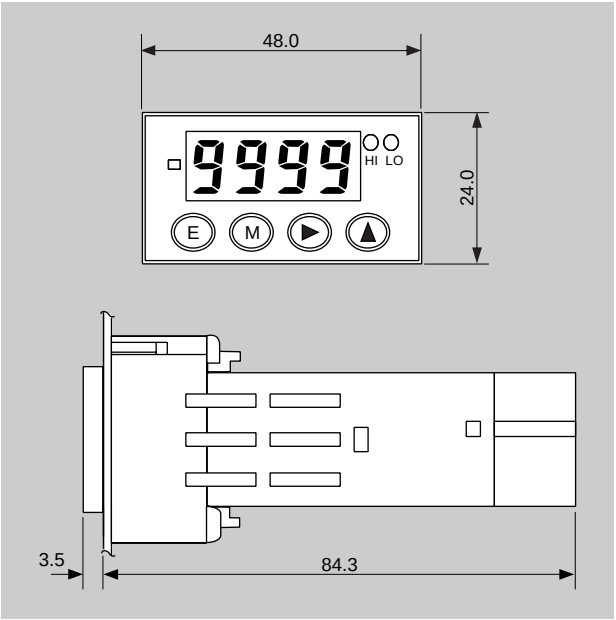
■ Connection Diagram



■ Panel Cut Out



■ Dimensions



■ Ordering Code

AM-215-□□-□□

Comparater output
1. Relay
2. Photo coupler

Option output
1. None
4. RS-485
6. Analog output (4-20mA)
7. Analog putput (0-10V)

Input range
11. 11 range (±99.99mV)
12. 12 range (±999.9mV)
13. 13 range (±9.999V)
1V. 1V range (1-5V)
2A. 2A range (4-20mA)