SETPOINT COMPARATOR

AM-112

✻One Setpoint, Peak Hold (option)

■ DC Voltage Measurement

Model No.	Range	Maximum Resolution	Input Impedance	Input Protection
AM-112-11	±199.9mV	100μV	100MΩ	±250V
AM-112-12	±1.999V	1mV	100MΩ	±250V
AM-112-13	±19.99V	10mV	10MΩ	±250V
AM-112-14	±199.9V	100mV	10MΩ	±500V

Accuracy: ±0.1% rdg. ±1 digit (23°C ±5°C)

■ DC Current Measurement

Model No.	Range	Maximum Resolution	Internal Resistance	Input Protection
AM-112-21	±199.9μA	100nA	1kΩ	±10mA
AM-112-22	±1.999mA	1μA	100Ω	±50mA
AM-112-23	±19.99mA	10μA	10Ω	±150mA
AM-112-24	±199.9mA	100μA	1Ω	±500mA
AM-112-25	±1.999A	1mA	0.1Ω	±3A

Accuracy: ±0.2% rdg. ±1 digit (23°C ±5°C)
±0.1% rdg. ±1 digit (23°C ±5°C) for AM-112-25

■ 1~5V Measurement

Model No.	Range	Display Adjustable	Input Impedance	Input Protection
AM-112-1V	1~5V	Offset ±1000 Fullscale 100~1999	1MΩ	±250V

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

■ 4~20mA Measurement

Model No.	Range	Display Adjustable	Internal Resistance	Input Protection
AM-112-2A	4~20mA	Offset ±1000 Fullscale 100~1999	51Ω	±70mA

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

■ Specifications

Input Configuration:	Single Ended
Input Bias Current:	2nA (Typ.)
Conversion Rate:	20 times/sec. or 2.5 times/sec.
Normal Mode Rejection:	More than 40dB (50/60 Hz)
Zero Stability:	Automatic zero adjustment
Zero Display:	Leading zero suppression
Display:	LED, 10mm (Red) 3 1/2 digit
Polarity:	A "-" is displayed automatically when input signal is negative
Decimal Point:	Settable to any digit position
Overrange Indication:	When input exceeds the maximum display, flash just before overflow number
Power Supply:	90~132VAC 132~264VAC 24VDC ±20%
Operating Temperature:	0~50°C, 35 to 85% RH
Power Consumption:	Approx. 2VA (AC) Approx. 35mA (DC)
Dimensions:	48(H) × 96(W) × 95(D) mm DIN size
Weight:	Approx. 350g (unit only)
Dielectric Strength:	Between input (Lo) and earth, 500VDC Between power supply terminal and input, terminal, earth, common, relay output, 1500VAC/1min.
Insulation Resistance:	500VDC 100MΩ at above terminals

■ Features

- Leading Zero Suppression
- Digital Zero (option)
- Peak, Valley, Peak-Valley Hold (option)
- Analog Output 0-2V (option)
- Bright LED 10mm (Red)
- Relay or Photo Coupler output

■ Compare Section

Control System:	8 bit microcomputer
Setting Range:	-1999~+1999
Comparative Condition:	Indication value>Setpoint➔HI LED on Indication value%Setpoint➔LO LED on
Relay Contact Capacity:	250VAC 0.1A Resistive Load 120VAC 0.5A Resistive Load 28VDC 1A Resistive Load
Photo Coupler Output:	HI, LO output (NPN type) Sink Current max. 20mA (less than 30V) Saturation voltage less than 1.2V at 20mA
External Control:	Reset; When reset and common terminal are shorted or 0V, comparion stop

■ Option

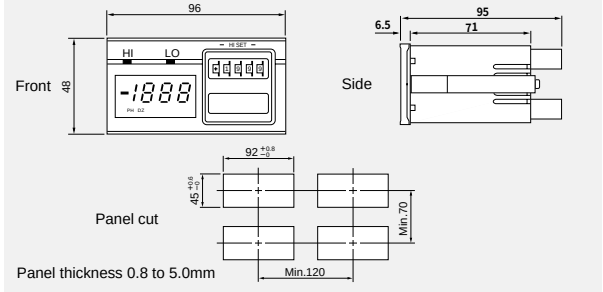
Digital Zero:	Set the mechanical initial values to Zero
Peak Hold:	Maximum value measurement display
Valley Hold:	Minimum value measurement display
Peak Valley Hold:	Measurement display of the difference between maximum and minimum values
Analog Output:	Analog output corresponding input value (When use digital zero function, do not meet digital conversion) Voltage; 0~±2V Accuracy; 0.5% F.S (23°C ±5°C) Load resistance; More than 20kΩ (Analog output do not isolated from input)

■ Ordering Guide

AM-112-□□-□□-□

- Comparator Output: 1. Relay, 2. Photo Coupler
- Output: 1. None / 3. Analog → 2.5/sec; 5. None / 7. Analog → 20/sec
- Power Supply: 1. 90~132V AC, 2. 180~264V AC, 4. 24V DC (Isolated)
- Range: 11~14, 21~25, 1V~2A

■ Dimensions



■ Connection Diagram