

*BCD, Analog Output (Option)



DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-143A-11	±199.99mV	Offset ±10000 Fullscale ±100-19999	100MΩ	±250V
AS-143A-12	±1.9999V		100MΩ	±250V
AS-143A-13	±19.999V		1MΩ	±250V
AS-143A-14	±199.99V		1MΩ	±500V

Accuracy: ±0.05% rdg. ±5 digits (23°C ±5°C)

1-5V Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-143A-1V-	1-5V	Offset ±10000 Fullscale 100-19999	1MΩ	±250V

Accuracy: ±0.05% rdg. ±5 digits (23°C ±5°C)

4-20mA Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-143A-2A	4-20mA	Offset ±10000 Fullscale 100-19999	127Ω	±50mA

Accuracy: 0.05% rdg. ±5 digits (23°C ±5°C)

Specifications

Input Configuration: Single Ended
 Input Bias Current: 2nA (Typ.)
 Conversion Rate: 2.5/sec or 6.25/sec (50Hz), 7.5/sec (60Hz)
 Normal Mode Rejection: More than 50dB (50/60Hz)
 Temperature Coefficient: Offset (Max.) ±0.5digit/°C
 Span (Max.) ±0.01% of span/°C
 Display: LED, 14.2mm 4 1/2 digits
 Polarity: A "-" is displayed automatically
 Decimal Point: Settable to any digit position
 Overflow Indication: When input exceeds the maximum display, 000 flashes
 Fullscale Adjustment: 100-19999
 Offset Adjustment: ±10000
 Span: 20000 counts
 Analog Output: 0~±2V

BCD Data Output (Isolated from input (Lo))

• At Open Collector
 Measured data: Negative logic transistor "ON" at logic "1"
 Polarity signal: Transistor "ON" at plus input
 "OVER" signal: Transistor "ON" at overflow input
 Printing command signal: Transistor "ON" during a period of approx. 1ms at every measurement completion
 Transistor output capacity: Applied voltage, 30V max. current, 10mA max. Saturated output voltage less than 1.2V at 10mA (NPN)

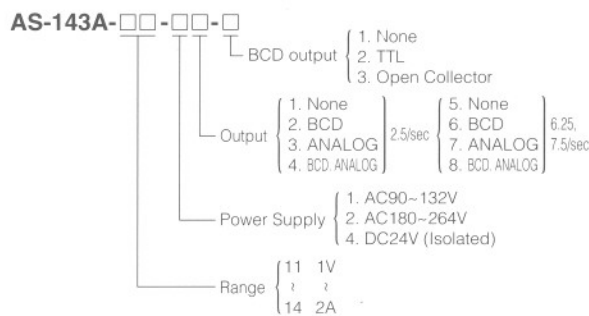
• At TTL level
 Measured data: Tri-state parallel BCD positive logic latch output
 Polarity signal: "1" level at plus input
 "OVER" signal: "1" level at overflow input
 Printing command signal: A positive pulse of approx. 1ms at every measurement completion
 Each signal of the above: TTL level Fanout=2

* Each signal of the above can be changed to negative logic
 Power Supply: AC90~132V, AC180~264V, DC24V ±10%
 Operating Temperature: 0~50°C, 35 to 85%RH
 Power Consumption: 2.5VA
 Dimensions: 48(H) × 96(W) × 95(D)mm DIN Size
 Weight: Approx. 250g
 Dielectric Strength: Between input (Lo) terminal and digital common, DC500V
 Between power supply terminal and input terminal, earth, common, AC1500V/1 min.
 Insulation Resistance: DC500V 100MΩ at above terminals

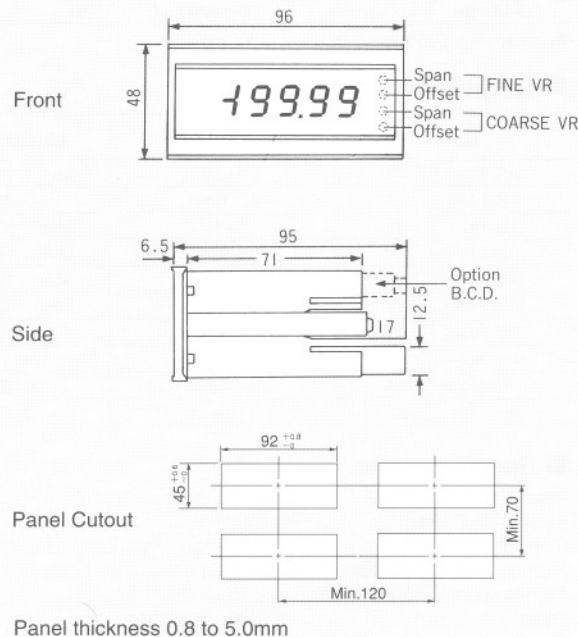
Features

- Easily adjustable offset-fullscale from the front panel (Span 20000 counts)
- Leading zero suppression
- Last Digit Suppression
- Parallel BCD output (Open collector) (option)
- Analog output (0.1mV/digit) (option)
- Variable conversion rate (option)
- Screw terminals for input and power supply
- DIN size 48(H) × 96(W)mm
- Bright LED, 14.2mm (Red)

Ordering Code



Dimensions



Connection Diagram

