

PROCESS MONITOR

AS-103A

*BCD, Analog Output Option



■ DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-103A-11	±199.9mV	Offset ±1000	100MΩ	±250V
AS-103A-12	±1.999V		100MΩ	±250V
AS-103A-13	±19.99V	Fullscale	10MΩ	±250V
AS-103A-14	±199.9V		±100~1999	10MΩ

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

■ DC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-103A-21	±199.9μA	Offset ±1000	1kΩ	±10mA
AS-103A-22	±1.999mA		100Ω	±50mA
AS-103A-23	±19.99mA	Fullscale ±100~1999	10Ω	±150mA
AS-103A-24	±199.9mA		1Ω	±500mA
AS-103A-25	±1.999A		0.1Ω	±3A

Accuracy: 0.2% rdg. ±2 digits (23°C ±5°C)

■ 1~5V Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-103A-1V	1~5V	Offset ±1000 Fullscale 100~1999	1MΩ	±250V

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

■ 4~20mA Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-103A-2A	4~20mA	Offset ±1000 Fullscale 100~1999	51Ω	±100mA

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

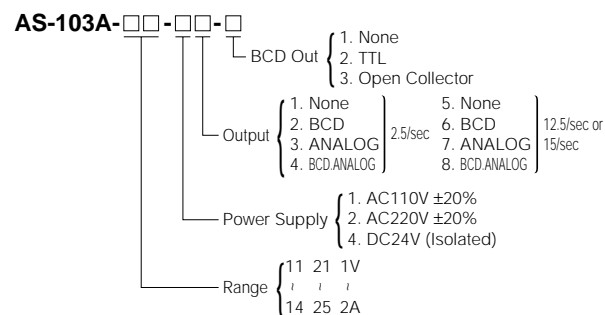
■ Specifications

Input Configuration: Single Ended
Input Bias Current: 2nA (Typ.)
Conversion Rate: 2.5/sec or 12.5/sec (50Hz), 15/sec (60Hz)
Normal Mode Rejection: More than 40dB (50/60Hz)
Display: LED, 14.2mm 3 1/2 digits
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, 1999 flashes
Fullscale Adjustment: 100~1999
Offset Adjustment: ±1000
Span: 2000 counts
Analog Output: 0~±2V
Output: Open Collector for all output, Sink current 10mA (Max.) Vce 30V (Max.)
 ¥ Data Output
 Parallel BCD (Isolation)
 ¥ Polarity Output
 Current sink when display is (+)
 ¥ Overrange Output
 Current sink when input signal exceeds 1999
 ¥ Print Command Output
 Current sink for 1ms after measurement is finished
Power Supply: AC110V ±20%, AC220V ±20%, DC24V ±20%
Operating Temperature: 0~50°C, 35 to 85%RH
Power Consumption: 2VA
Dimensions: 48(H) × 96(W) × 95(D)mm DIN Size
Weight: Approx. 220g
Dielectric Strength: Between input (Lo) terminal and digital common, DC ±500V
 Between power supply terminal and input terminal, earth, common, AC1500V/1 min.
 DC500V 100MΩ at above terminals
Insulation Resistance:

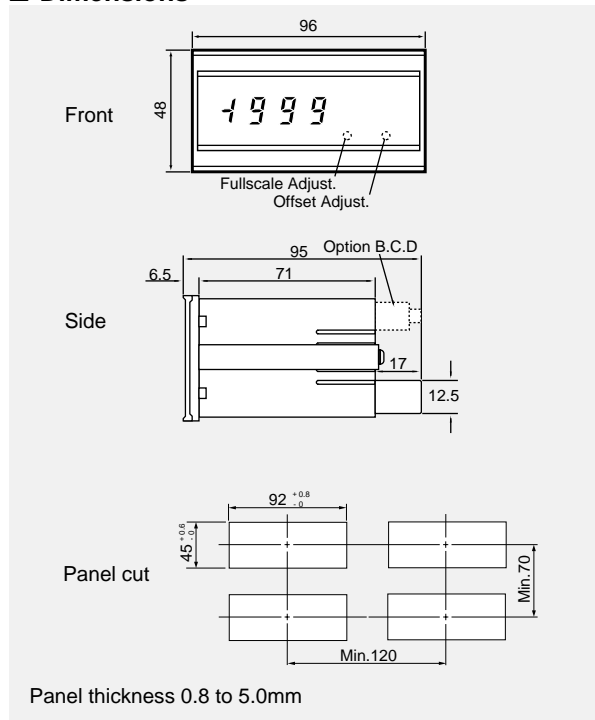
■ Features

- Easily adjustable for offset-fullscale from the front panel (Span 2000 counts)
- Bright LED, 14.2mm (Red)
- Screw terminals for input and power supply
- DIN size 48(H) × 96(W)mm
- Parallel BCD output (Open collector) (option)
- Analog output (0.1mV/digit) (option)
- Leading Zero Suppression

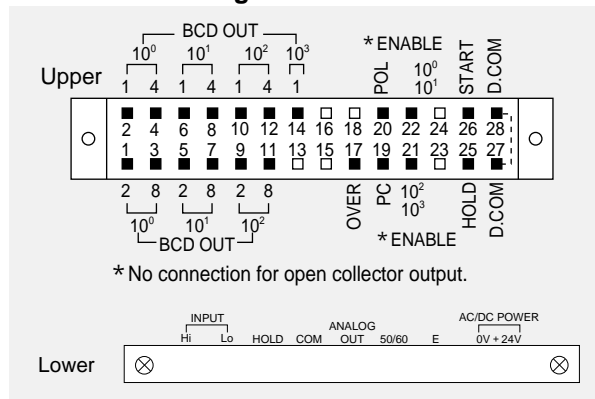
■ Ordering Code



■ Dimensions



■ Connection Diagram



PROCESS MONITOR

AS-104

*With Excitation Power Supply



DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-104-1V	1-5V	Offset ±1000	1MΩ	±250V
AS-104-0V	0-1V		100MΩ	
AS-104-2V	0-5V	Fullscale 100-1999	1MΩ	
AS-104-3V	0-10V		1MΩ	
AS-104-5V	0-100mV	100MΩ		

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

DC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-104-2A	4-20mA	Offset ±1000	125Ω	±50mA
AS-104-0A	0-1mA		100Ω	
AS-104-1A	0-10mA	Fullscale 100-1999	100Ω	
AS-104-3A	0-20mA		50Ω	

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

Analog Output Specifications

Model	Output	Load Resistance
AS-104- -1V	1~5V	Min. 1kΩ
AS-104- -2A	4~20mA	0~600Ω
AS-104- -0V	0~1V	Min. 500Ω
AS-104- -2V	0~5V	Min. 1kΩ
AS-104- -3V	0~10V	Min. 1kΩ
AS-104- -4V	0~10mV	Min. 10kΩ
AS-104- -5V	0~100mV	Min. 100kΩ
AS-104- -0A	0~1mA	0~12kΩ
AS-104- -1A	0~10mA	0~600Ω
AS-104- -3A	0~20mA	0~600Ω

Specifications

Input Configuration: Single Ended
Input Bias Current: 2nA(TYP.)
Conversion Rate: 2.5/sec(Can adjust 0.3/sec to 2/sec)
Normal Mode Rejection: More than 50dB(50/60Hz)
Temperature Characteristic: Less than 100PPM/°C
Display: LED, 14.2mm(Red)
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, 000 flashes
Fullscale Adjustment: 100-1999
Offset Adjustment: ±1000
Span Range: 2000 counts
Zero Display: Leading zero suppression(Select by front switch)
Last Digit Suppression: Can fix 100 digit to "0" (Select by internal jumper wire)
Hold: Negative signal 0V or short
Excitation Supply: DC24V±10% 30mA, DC12V±10% 60mA
Operating Temperature: 0-50°C, 35 to 85%RH
Power Consumption: 5VA
Power Supply: AC90~132V, AC180~264V
Dimensions: 48(H) × 96(W) × 144(D)mm DIN Size
Weight: Approx. 450g
Dielectric Strength: Between power supply and input, output, earth, COM, AC1500V/min
 Between input and output, AC1500V/1 min.
Insulation Resistance: DC±500V, 100MΩ at above terminals

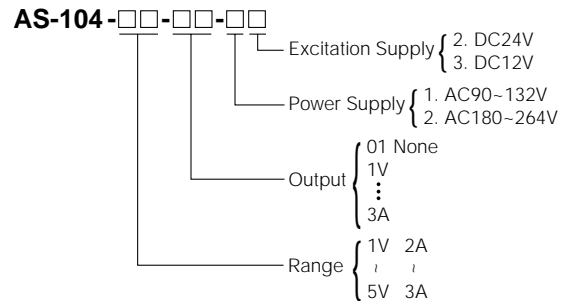
Features

- Offset Adjustable ±1000
- Fullscale Adjustable 100~1999
- Span Range 2000 Counts
- Leading Zero Suppression
- Last digit suppression available
- Analog Output(Isolated)(option)
- Excitation Power Supply DC24V, 12V for Transducer
- Power Supply AC90~132V, AC180~264V
- Dimensions 48(H) × 96(W) × 144(D)mm
- Bright LED, 14.2mm(Red)
- Variable conversion rate 0.3/sec~2/sec(option)

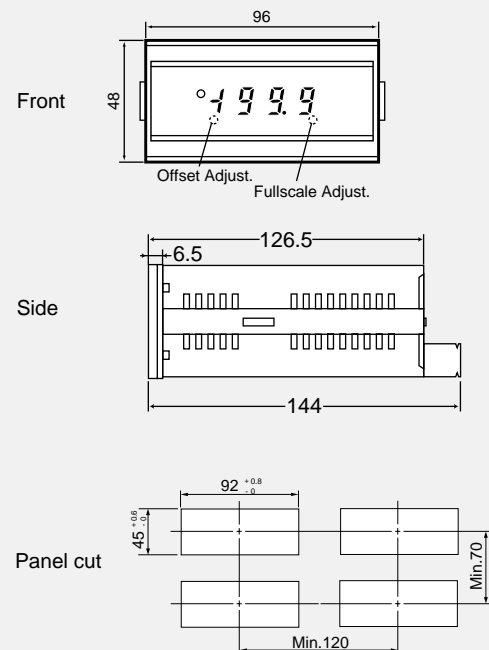
Analog Output

Allowable: 0.15% F.S.(23°C±5°C)
Linearity: 0.1% F.S.
Response Time: Less than 0.5 sec(0~90%)
Temperature Coefficient: Less than 200PPM/°C
Output Adjustable Range: Zero:More than ±3% of Span
 Span:More than ±3% of Span

Ordering Code

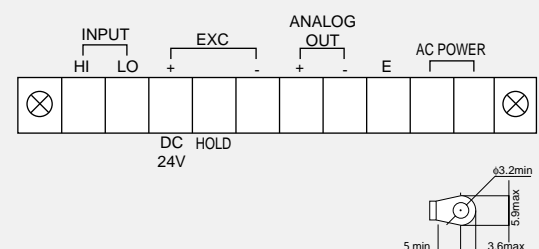


Dimensions



Panel thickness 0.8 to 5.0mm

Connection Diagram



PROCESS MONITOR

AS-105

*HI & Lo setpoints Excitation supply



■ DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-105-1V	1~5V	Offset ± 1000	1M Ω	$\pm 100V$
AS-105-2V	0~5V	Fullscale 200~1999		

Accuracy: $\pm(0.1\% \text{ rdg.} + 2 \text{ digit})$ (23°C $\pm 5^\circ\text{C}$ 45~75%RH)

■ DC Current Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-105-2A	4~20mA	Offset ± 1000 Fullscale 200~1999	1M Ω	$\pm 100V$

Accuracy: $\pm(0.2\% \text{ rdg.} + 2 \text{ digit})$ (23°C $\pm 5^\circ\text{C}$ 45~75%RH)

■ Specifications

Input configuration:	Single ended
Conversion rate:	2.5/sec
Normal mode rejection:	NMR40dB TYP (50/60Hz)
Display:	Red LED, 14.2mm height
Polarity display:	Automatic "-" display when the computation result is minus
Overrange indication:	When input exceeds the maximum display, 1999 flashed
Temperature coefficient:	Offset $\pm 0.5 \text{ digit}/^\circ\text{C}$ (TYP) Fullscale $\pm 0.5 \text{ digit}/^\circ\text{C}$ (TYP) ± 1999
Maximum display:	± 1999
Excitation supply:	24VDC $\pm 10\%$ 20mA (at 100VAC) 12VDC $\pm 10\%$ 30mA (at 100VAC) (Option)
Decimal point:	Settable to any digit position (front dip switch)
Zero display:	Leading zero suppression
Operating temperature:	0~50°C 35~85% RH
Storage temperature:	-10~70°C (less than 60% RH)
Power supply:	90~132VAC (50/60Hz) 180~264VAC(50/60Hz)
Power consumption:	3VA (TYP) (at 100VAC)
Dimensions:	96mm(W) \times 48mm(H) \times 95mm(D) DIN size
Weight:	Approx. 300g (main unit only)
Dielectric strength:	Input/comparative output, 500VDC/1 min. Input/earth, case, 1500VAC/1 min. Power supply/input, COM, case, comparative output, 1500VAC/1 min.
Insulation resistance:	500VDC more than 100M Ω at the above terminals
Dielectric noise:	Power supply terminal, normal mode $\pm 1500V$
Accessories:	Instruction manual, terminal cover

■ Output Specification

BCD data output (isolated input (Lo))

●At TTL

Measured data:	Tri-state paraelle BCD, positive logic, latch output
Polarity signal:	Level "1" at minus input
Over signal:	Level "1" at overflow input
Printing command signal:	Positive pulse approx. 1ms at every measurement completion TTL level, funout 2, CMOS 5V (Available negative logic for the above signals)

●At open collector

Measured data:	Negative logic transistor "ON" at logic 1
Polarity signal:	Transistor "ON" at minus 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, max 30V current max 15mA (NPN) Saturated output voltage less than 1.2V at 15mA

■ Features

- Offset adjustable ± 1000
- Fullscale adjustable 200 ~ 1999
- With excitation supply 24VDC (available 12VDC)
- Hi and Lo setpoint
- Option BCD output (TTL or Open collector)

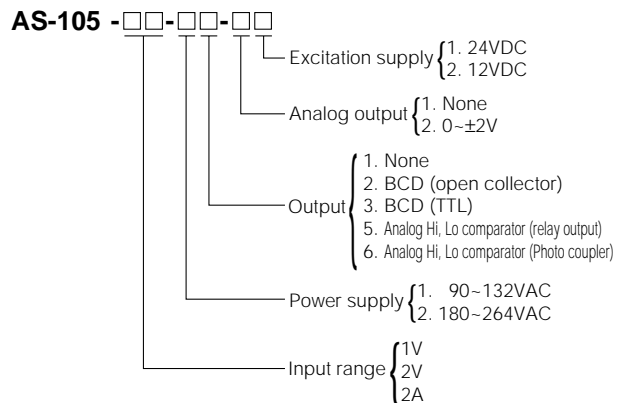
●Analog output (Terminal 5 and 6)

Voltage output:	0~ $\pm 1999\text{mV}$ (proportion display)
Accuracy:	Within 0.5% FS (23°C $\pm 5^\circ\text{C}$)
Resolution:	1mV/digit
Resistive load:	More than 10K Ω
Ripple:	Less than 10mVP-P
Response speed:	Less than 0.5s

■ Comparison Specifications

Control method:	Analog comparator system
Setting range:	+50~+1999 (Hi and Lo setpoint)
Accuracy:	Setpoint $\pm 2 \text{ digit}$ (23°C $\pm 5^\circ\text{C}$) TYP
Setting method:	Volume setting (Hi and Lo)
Comparison output:	For relay: contact capacity 250VAC 0.1A Resistive load 120VAC 0.5A Resistive load 28VDC 1A Resistive load For photo coupler: contact capacity voltage: Max. 30V current: Max. 20mA saturation voltage: less than 1.2V at 20mA
Comparison display:	Lit red LED (Hi and Lo)
Comparison condition:	HI setpoint \leq measured value LO setpoint \geq measured value
Hysteresis:	5~10 digits
Response speed:	100ms (TYP)

■ Ordering Code



PROCESS MONITOR

AS-144

*With Excitation Power Supply



DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-144-1V	1-5V	Offset ±10000 Fullscale 100-19999	1MΩ	±250V
AS-144-0V	0-1V		100MΩ	
AS-144-2V	0-5V		1MΩ	
AS-144-3V	0-10V		1MΩ	
AS-144-5V	0-100mV		100MΩ	

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

DC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-144-2A	4-20mA	Offset ±10000 Fullscale 100-19999	125Ω	±50mA
AS-144-0A	0-1mA		100Ω	
AS-144-1A	0-10mA		100Ω	
AS-144-3A	0-20mA		50Ω	

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

Output Specifications

Model	Output	Load Resistance
AS-144- -1V	1-5V	Min. 1kΩ
AS-144- -2A	4-20mA	0-600Ω
AS-144- -0V	0-1V	Min. 500Ω
AS-144- -2V	0-5V	Min. 1kΩ
AS-144- -3V	0-10V	Min. 1kΩ
AS-144- -4V	0-10mV	Min. 10kΩ
AS-144- -5V	0-100mV	100kΩ
AS-144- -0A	0-1mA	0-12kΩ
AS-144- -1A	0-10mA	0-600Ω
AS-144- -3A	0-20mA	0-600Ω

Specifications

Input Configuration: Single Ended
Input Bias Current: 2nA(TYP.)
Conversion Rate: 2.5/sec(Can adjust 0.3/sec to 2/sec)
Normal Mode Rejection: More than 50dB(60/50Hz)
Temperature Characteristic: Less than 100PPM/Deg. C
Display: LED, 14.2mm(Red)
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, 0000 flashes
Fullscale Adjustment: 100-19999
Offset Adjustment: ±10000
Span Range: 20000 counts
Zero Display: Leading zero suppression(Select by front switch)
Fixed Zero Display: Can fix 100 digit to "0" (Select by internal jumper wire)
Hold: Negative signal 0V or short
Excitation Supply: DC24V±10% 30mA
Operating Temperature: 0~50°C, 35 to 85%RH
Power Consumption: 5VA
Power Supply: AC90-132V, AC180-264V
Dimensions: 48(H) × 96(W) × 144(D)mm Din Size
Weight: Approx. 450g
Dielectric Strength: Between power supply and input, output, earth, EX(-), AC1500V/min
 Between input and output, AC1500V/1min.
Insulation Resistance: DC±500V, 100MΩ at above terminals

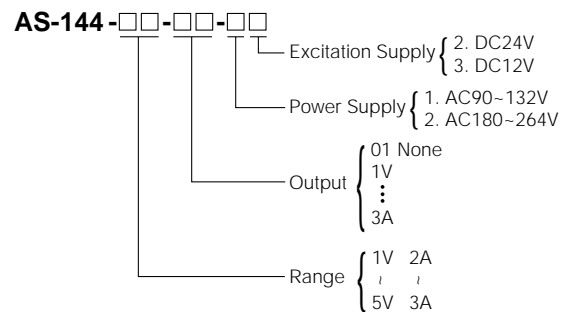
Features

- Offset Adjustable±10000
- Fullscale Adjustable 100~19999
- Span Range 20000 counts
- Leading Zero Suppression
- Last Digit Suppression
- Analog Output(Isolated)(option)
- Excitation Power Supply DC24V, DC12V Transducer
- Power Supply AC90~132V, AC180~264V
- Dimensions 48(H)X96(W)X144(D)mm
- Bright LED, 14.2mm(Red)

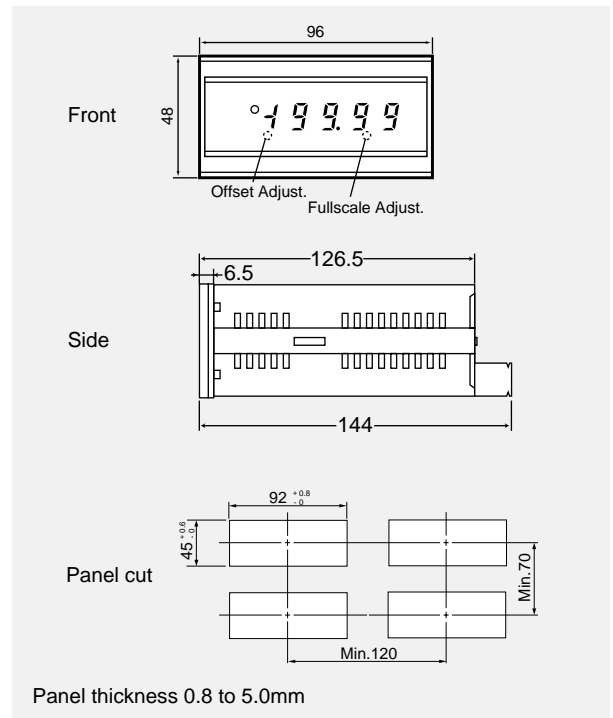
Analog Output

Allowable: 0.15% F.S.(23°C±5°C)
Linearity: 0.1% F.S.
Response Time: Less than 0.5 sec(0-90%)
Temperature Coefficient: Less than 200PPM/°C
Output Adjustable Range: Zero:More than±3% of Span
 Span:More than±3% of Span

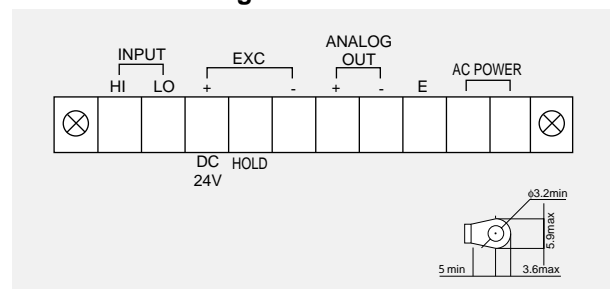
Ordering Code



Dimensions



Connection Diagram



PROCESS MONITOR

AS-201

* Fullscale Adjustable



■ DC Voltage Measurement

Model Code	Range	Display Adjustable	Input Impedance	Input Protection
AS-201-1V	1~5V	0-100~1999	1MΩ	±250V
AS-201-2V	0~5V	0-100~1999	1MΩ	±250V
AS-201-3V	0~10V	0-100~1999	1MΩ	±250V

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

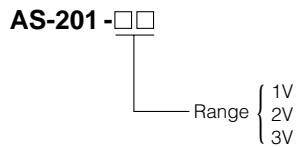
■ Specifications

Input Configuration:	Single Ended
Input Bias Current:	2nA(Typ.)
Conversion Rate:	2.5/sec
Normal Mode Rejection:	40dB Typ. (50/60Hz)
Temperature Coefficient:	±0.1 digit (Typ.)/°C ±0.3 digit (Max.)/°C
Display:	LED, 10.2mm 3 1/2 digit
Polarity:	1V Range:When input less than 1V, a "-" is displayed automatically. 2V, 3V Range:When input less than 0V, a "-" is displayed automatically.
Decimal Point:	Settable to any digit position
Overrange Indication:	When input exceeds the maximum display, 1999 flashes
Full-scale Adjustment:	100~1999
External Hold:	Negative 0V or Short
Power Supply:	DC 5V±5% 70mA (Typ.)
Operating Temperature:	0~50°C, 35 to 85%RH
Power Consumption:	350mW
Dimensions:	24(H) × 48(W) × 73(D)mm DIN Size
Weight:	40g
Dielectric Strength:	Between Input(Lo) and Mounted panel, AC1500V/1 min.
Insulation Resistance:	DC500V 100MΩ or more at above terminals

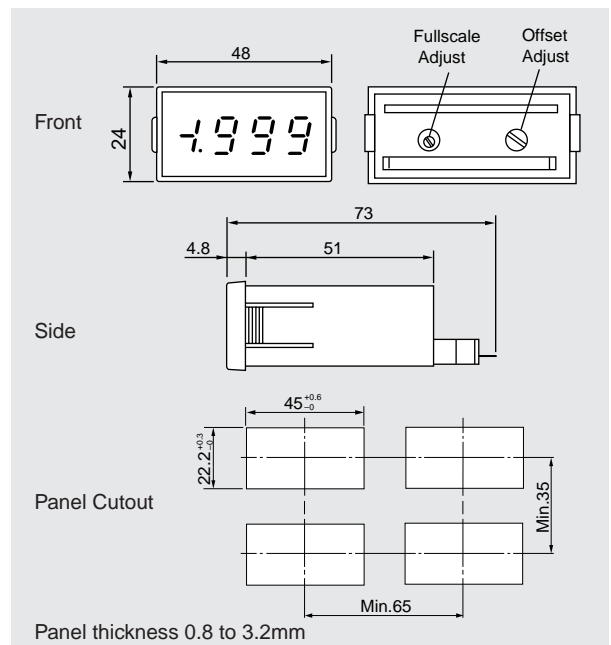
■ Features

- Adjustable full scale
- Bright LED 10.2mm
- Din size 24(H) × 48(W)
- 1-5V, 0-5V, 0-10V measurement
- Power supply DC5V (NO-ISOLATED)

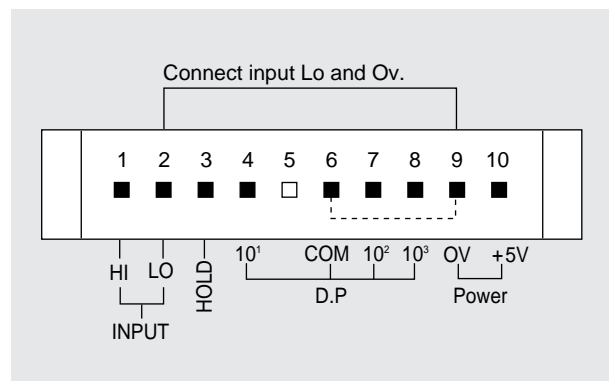
■ Ordering Code



■ Dimensions



■ Connection Diagram



PROCESS MONITOR

AS-203A

*Miniature Size



■ DC Voltage Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-203A-11	±199.9mV	Offset ±1000	100MΩ	±100V
AS-203A-12	±1.999V		100MΩ	±250V
AS-203A-13	±19.99V	Fullscale ±100~1999	10MΩ	±250V
AS-203A-14	±199.9V		10MΩ	±500V

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

■ DC Current Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-203A-21	±199.9μA	Offset ±1000	1kΩ	±10mA
AS-203A-22	±1.999mA		100Ω	±50mA
AS-203A-23	±19.99mA	Fullscale ±100~1999	10Ω	±150mA
AS-203A-24	±199.9mA		1Ω	±500mA
AS-203A-25	±1.999A		0.1Ω	±3A

Accuracy: ±0.2% rdg. ±2 digits (23°C ±5°C)
±0.3% rdg. ±1 digit only for AS-203A-25

■ 1~5V Measurement

Model	Range	Display Adjustable	Input Impedance	Input Protection
AS-203A-1V	1~5V	Offset ±1000 Fullscale 100~1999	1MΩ	±250V

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

■ 4~20mA Measurement

Model	Range	Display Adjustable	Internal Resistance	Input Protection
AS-203A-2A	4~20mA	Offset ±1000 Fullscale 100~1999	51Ω	±70mA

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

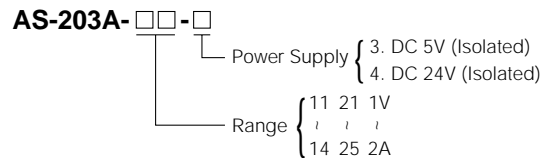
■ Specifications

Input Configuration: Single Ended
Input Bias Current: 2nA (Typ.)
Conversion Rate: 2.5/sec
Normal Mode Rejection: 40dB (Typ.) (50/60Hz)
Temperature Coefficient: Offset Typ. ±0.1, Max. ±0.3 digit/°C
 Fullscale Typ. ±0.1, Max. ±0.3 digit/°C
Display: LED, 8mm 3 1/2 digits
Polarity: A "-" is displayed automatically
Decimal Point: Settable to any digit position
Overrange Indication: When input exceeds the maximum display, 1999 flashes
Fullscale Adjustment: 100~1999
Offset Adjustment: ±1000
Span: 2000 counts
Power Supply: DC5V ±5%, 90mA (Typ.)
 DC24V ±20%, 20mA
Operating Temperature: 0~50°C, 35 to 85%RH
Power Consumption: 450 mW at 5V, 480 mW at 24V
Dimensions: 24(H) × 48(W) × 73(D)mm DIN Size
Weight: Approx. 46g
Dielectric Strength: Between power supply (OV) terminal and input (Lo) terminal, DC500V
 Between input (Lo) terminal and mounting panel, AC1500V/1 min.
Insulation Resistance: DC500V 100MΩ at above terminals

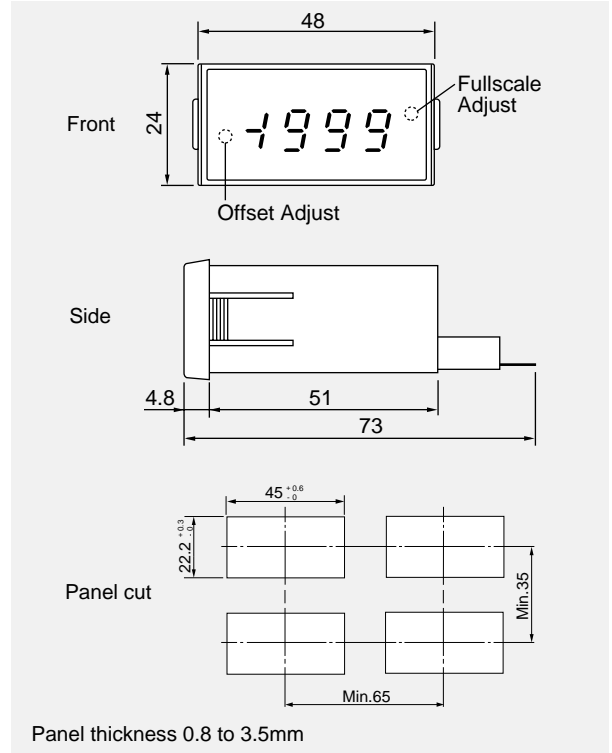
■ Features

- Easily adjustable offset-fullscale from the front panel (Span 2000 counts)
- Bright LED, 8mm (Red)
- DIN size 24(H) × 48(W)mm
- Power supply DC5V or DC24V (Isolated)
- 200mV~200V, 200μA~2A Measurement
- 1~5V, 4~20mA Measurement

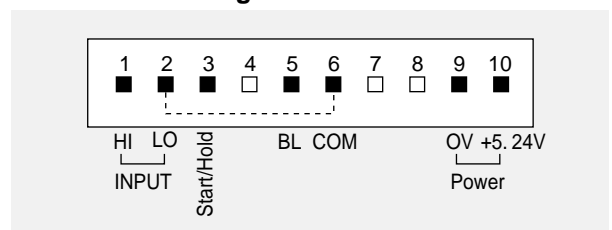
■ Ordering Code



■ Dimensions



■ Connection Diagram



PROCESS MONITOR

AS-243

*Standard 4 1/2 Digit



DC Voltage Measurement

Model	Range	Display	Input Impedance	Input Protection
AS-243-1V	1-5 V	Offset ± 5000 fullscale 100 to 9999	1M Ω	$\pm 250V$
AS-243-2V	0-5V		1M Ω	$\pm 250V$
AS-243-3V	0-10 V		1M Ω	$\pm 250V$

Accuracy: $\pm(0.1\%$ of rdg+2 digit) (23°C $\pm 5^\circ$ C 45~75%RH)

DC Current Measurement

Model	Range	Display	Internal Resistance	Input Protection
AS-243-2A	4-20mA	Offset ± 5000 fullscale 100 to 9999	50 Ω	$\pm 50mA$

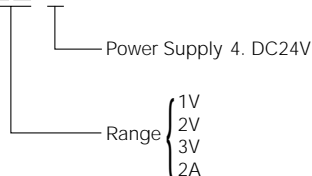
Accuracy: $\pm(0.1\%$ of rdg+2 digit) (23°C $\pm 5^\circ$ C 45~75%RH)

General Specifications

Input configuration :	Single ended
Input bias current :	2 mA (TYP.)
Conversion rate :	2.5/sec
Normal mode rejection :	50dB (TYP.) (50/60 Hz)
Temp. coefficient :	Offset display ± 0.5 digit/ $^\circ$ C Fullscale display $\pm 0.01\%$ of span/ $^\circ$ C
Overrange indication :	When input exceeds the maximum display, display flashes
Fullscale adjustment :	100 to 9999
Offset adjustment :	± 5000
Span :	10000 counts
Display :	LED, 8 mm (Red)
Polarity :	A "-" is displayed automatically
Scaling :	By switch (rear) and fine volume (front)
Hold :	COM and S/H terminal shorted
Decimal point :	Settable to any digit position
Operating temperature :	0 to 50°C 35 to 85%RH
Power supply :	DC24V $\pm 20\%$
Power consumption :	30 mA at DC24V
Dimensions :	24(H) \times 48(W) \times 87(D)mm DIN size
Weight (unit) :	Approx. 50g
Dielectric strength :	Between input (Lo) and mounted panel, AC 1500V/l min. Between input (Lo) and power supply (0V), DC 500 V/l min.
Insulation resistance :	DC 500 V 100 M Ω or more at the above terminals
Accessory :	Connector, Instruction manual

Ordering Code

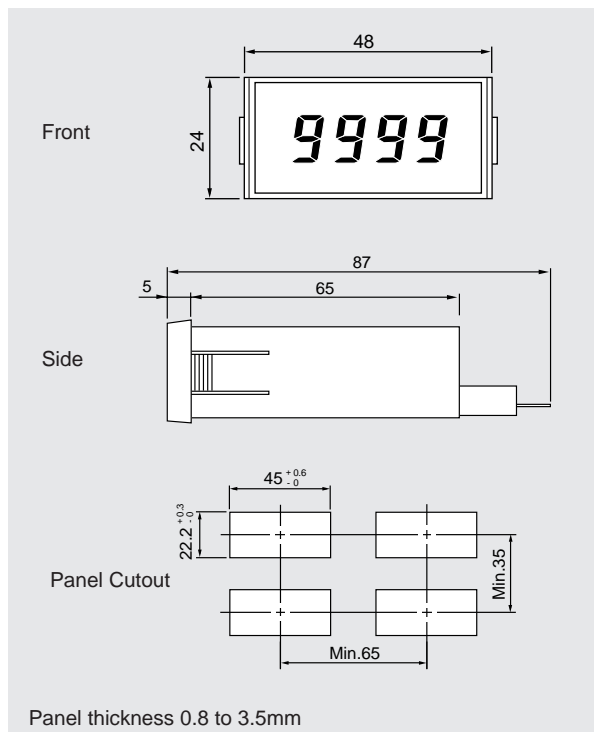
AS-243-□□-4



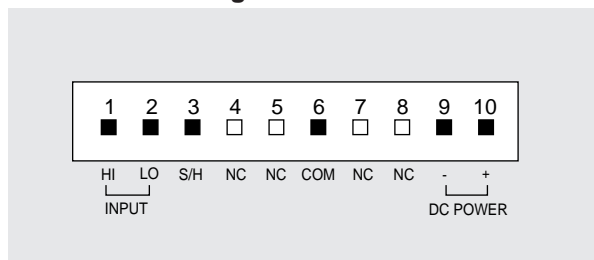
Features

- Easily adjustable offset-fullscale (Span 10000 counts)
- Bright LED, 8 mm (Red)
- DIN size 24 (H) \times 48 (W) mm
- Power supply DC 24 V (isolated)
- 1-5 V, 0-5 V, 0-10 V, 4-20 mA measurement

Dimensions



Connection Diagram



PROCESS MONITOR

AL-501A

* Self Power(4 to 20mA)



■ Features

- Self power (4~20mA)
- Easily adjustable for offset-fullscale from the front panel
- LCD Display, 12.7 mm
- Screw terminals
- 4~20mA Measurement

■ 4~20mA Measurement

Model	Range	Display Adjustable	Input Protection
AL-501A	4~20mA	Offset ± 200 Fullscale 100~1999	± 50 mA

Accuracy: $\pm 0.1\%$ F.S. ± 1 digit (23°C $\pm 5^\circ$ C)

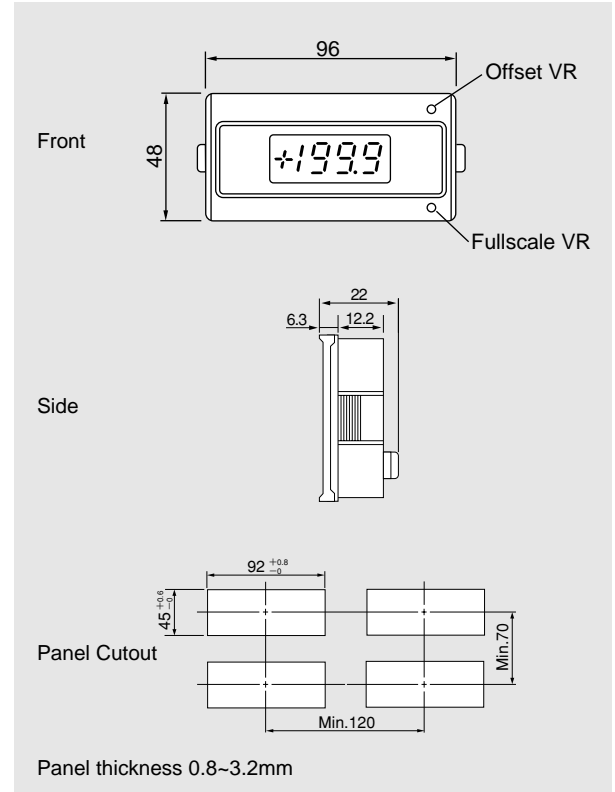
■ Specifications

Input Configuration:	Single Ended
Max. Display:	1999
Conversion Rate:	2.5/sec
Normal Mode Rejection:	NMR 40dB (TYP)
Temperature Coefficient:	Offset display, ± 0.3 digit/ $^\circ$ C (Max.) Fullscale display, ± 0.3 digit/ $^\circ$ C (Max.)
Overrange Indication:	When input exceeds the maximum display, display +1 and blank other digits
Fullscale Adjustment:	100 to 1999
Offset Adjustment:	± 200 digits
Voltage Drop:	2.2V (at 20mA) Typ. 1.6V (at 4mA) Typ.
Display:	LCD, 12.7mm
Polarity:	A "-" is displayed automatically
Decimal Point:	Settable to any digit position
Power Supply:	Current loop power (4 to 20mA)
Operating Temperature:	0 to 50 $^\circ$ C, 35 to 85% RH
Dimensions:	48(H) \times 96(W) \times 22(D)mm DIN size
Weight:	Approx. 55 g (unit only)
Dielectric Strength:	Input (Lo) terminal and earth(E), 500VDC/1min.
Accessory:	Instruction Manual

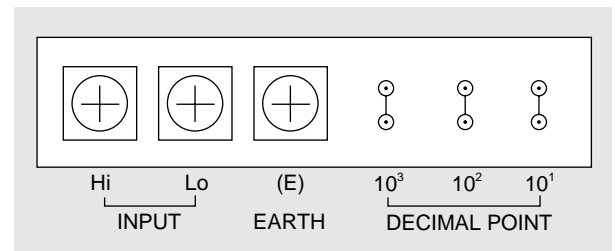
■ Ordering Code

AL-501A

■ Dimensions



■ Connection Diagram



PROCESS MONITOR

AL-203

*Self Power



■ 4~20mA Measurement

Model	Range	Display Adjustable	Input Protection
AL-203	4~20mA	Offset ±200 Full-scale 100~1999	±50mA

Accuracy: ±0.2% F.S. ±2 digit (23°C±5°C)

■ Specifications

Input Configuration:	Single Ended
Conversion Rate:	2.5/sec
Normal Mode Rejection:	NMR 40 dB or more(50/60 Hz)
Temperature Coefficient:	Offset ±0.3digit/°C(MAX.) Full-scale ±0.3digit/°C(MAX.)
Overrange Indication:	When input exceeds the maximum display, display+1
Full-scale Adjustment:	100~1999
Offset Adjustment:	±200
Span:	2000 Counts
Voltage Drop:	2.4V(at 20mA)Typ. 2.1V(at 4mA)Typ.
Display:	LCD, 7.4mm
Polarity:	A "-" is displayed automatically
Decimal Point:	Settable to any digit position
Engineering Unit:	%, °C, °F
Operating Temp:	0~+50°C, (OPTION-30°C~+80°C)35~85% RH
Power Supply:	Current loop power(4~20mA)
Dielectric Strength:	Between Lo and Earth, DC 500V
Dimension:	24(H) × 48(W) × 24(D)mm DIN Size
Weight:	20g

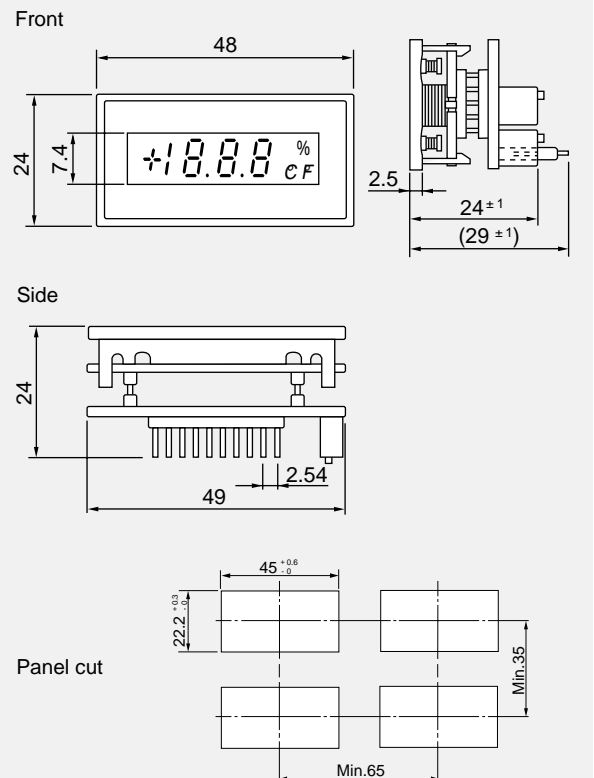
■ Features

- Loop Power(4~20mA)
- Adjustable offset and full scale
- LCD display 7.4mm
- 4~20 mA measurement
- Option-30°C~+80°C operating

■ Ordering code

AL-203

■ Dimensions



■ Connection Diagram

