

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: $\pm(0.1\%$ rdg. +2 digit) (23°C $\pm 5^\circ C$ 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: $\pm(0.2\%$ rdg. +2 digit) (23°C $\pm 5^\circ C$ 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 ± 0.5 digit/ $^\circ C$ (TYP)
 Fullscale ± 0.5 digit/ $^\circ C$ (TYP)
 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 parallel 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, f_{unout} 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)

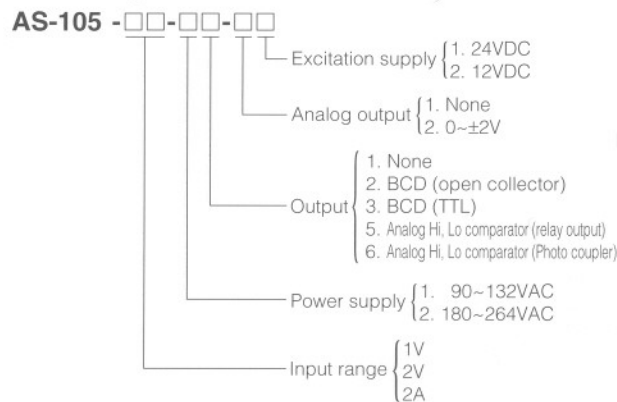
●Analog output (Terminal 5 and 6)

Voltage output: 0~ $\pm 1999mV$ (proportion display)
 Accuracy: Within 0.5% FS (23°C $\pm 5^\circ C$)
 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 ± 2 digit (23°C $\pm 5^\circ C$) 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



Sales, Service, Technical support
Topac Inc.

101 Derby St., Hingham MA 02043 USA
 www.topac.com, sales@topac.com
 Tel: 781 740 8778 Fax: 781 740 8779