MODEL: DS-48

Plug-in Signal Conditioners M-UNIT

CURRENT LOOP SUPPLY

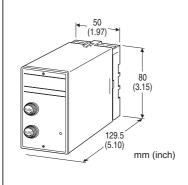
(10 - 50mA loop)

Functions & Features

- Powering a 10 50 mA DC current loop
- Electrically isolating output signal from power input
- · Shortcircuit protection with fuses
- · High-density mounting

Typical Applications

Various 2-wire transmitters



MODEL: DS-48-[1][2]

ORDERING INFORMATION

• Code number: DS-48-[1][2]

Specify a code from below for each [1] and [2].

(e.g. DS-48-B/Q)

• Specify the specification for option code /Q

(e.g. /C01/S01)

SUPPLY OUTPUT

48: 48 V DC (unregulated)

INPUT

Current

10 – 50 mA DC (Input resistance approx. 100 Ω)

OUTPUT

Voltage

1 – 5 V DC (Load resistance 100 k Ω min.)

[1] POWER INPUT

AC Power

B: 100 V AC **C**: 110 V AC

D: 115 V AC

F: 120 V AC

G: 200 V AC

H: 220 V AC

J: 240 V AC **DC Power**

R: 24 V DC

[2] OPTIONS

blank: none

/Q: With options (specify the specification)

SPECIFICATIONS OF OPTION: Q (multiple selections)

COATING (For the detail, refer to M-System's web site.)

/C01: Silicone coating /C02: Polyurethane coating /C03: Rubber coating

TERMINAL SCREW MATERIAL

/S01: Stainless steel

GENERAL SPECIFICATIONS

Construction: Plug-in

Connection: M3.5 screw terminals

Screw terminal: Chromated steel (standard) or stainless

steel

Housing material: Flame-resistant resin (black)

Isolation: Input or output to power

Power fuse: 250 V, 0.5 A (size: 5.2 x 20 mm) Loop fuse: 125 V, 0.1 A (size: 5.2 x 20 mm) Loop monitor terminals: Output 1 - 5 V DC

Power LED: Red light turns on in normal voltage level.

SUPPLY OUTPUT

Output voltage: 48 V DC ±10 % (with 100 % power input)

Current rating: ≤ 60mA DC

INPUT SPECIFICATIONS

■ DC Current: Input resistor incorporated

INSTALLATION

Power input

•AC: Operational voltage range: rating ± 10 %,

50/60 ±2 Hz, approx. 3 VA

•DC: Operational voltage range: 24 V ±10 %, approx. 120

mA (ripple 10 %p-p max.)

Operating temperature: -5 to +60°C (23 to 140°F)
Operating humidity: 30 to 90 %RH (non-condensing)

Mounting: Surface or DIN rail **Weight**: 350 g (0.77 lb)



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PERFORMANCE in percentage of span

Accuracy: ± 0.1 % (accuracy of the receiving resistor) Temp. coefficient: ± 0.003 %/°C (± 0.002 %/°F) (temp.

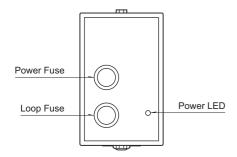
coefficient of the receiving resistor)

Insulation resistance: $\geq 100 \text{ M}\Omega$ with 500 V DC Dielectric strength: $1000 \text{ V AC} \oplus 1 \text{ minute}$

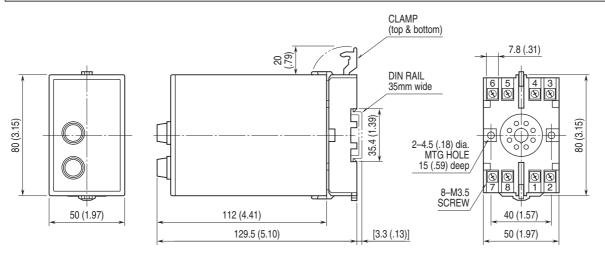
(input or output to power)

2000 V AC @ 1 minute (input or output or power to ground)

EXTERNAL VIEW

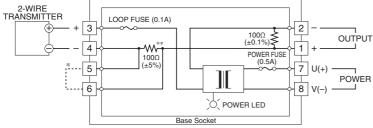


EXTERNAL DIMENSIONS & TERMINAL ASSIGNMENTS unit: mm (inch)



•When mounting, no extra space is needed between units.

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM



*The DS-48 incorporates a resistor $[100\Omega \pm 5\%]$ for adijusting load on the current loop (**). When the resistor is not required, short across terminals 5-6, or connect the 2-wire transmitter to terminals 3(+)-6(-).



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Specifications are subject to change without notice.