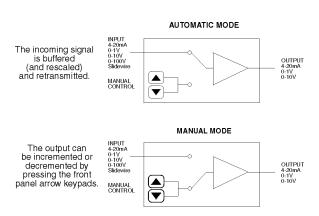
Panel Mount Indicators PM4-AM Auto/Manual Loading Station



PM4 displays







Description

The PM4-AM Auto/Manual Loading Station is a versatile instrument which may be configured to accept inputs of 4-20mA, DC volts (± 100 mVDC, ± 1 VDC, ± 10 VDC or ± 100 VDC) or slidewire, then retransmit an automatically or manually controlled analog output of 4-20mA, 0-1V or 0-10V.

The instrument may be calibrated to display the input directly in engineering units.

The PM4-AM can be changed between auto and manual by a remote contact closure input or the **P** button. The PM4-AM provides a bumpless auto to manual transfer and a smooth transition between manual to auto (the ramp rate is programmable).

The internal relay provides the external controller with an AUTO/MAN status signal (using A3 and A4 indicators). The PM4-AM is available with a wide range of power supplies (factory configured) and an optional extra relay and transmitter power output.

Electrical isolation between power supply, signal input and retransmission, eliminates grounding and common mode voltage problems.

Features

- Provides manual control and buffered auto transfer
- Wide range of input/output mA/Volts
- Current or voltage input and output combinations
- Bumpless auto to manual transfer
- Programmable manual to auto smooth ramping
- Programmable digital filter
- Pushbutton manual control calibration and setup
- Electrical isolation between input signal/output/ power supply
- Displays in engineering units
- Independent scaling for bargraph and seven segment display on bargraph versions
- 240V, 110V, 32V, 24V AC, 12 to 48V DC or 50 to 110V DC power supply (factory configured)
- Auto/manual status relay output
- Local or remote auto/manual change over
- 2 year guarantee

PM4AM-3.6-0

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Specifications

Impedance:

Technical Specifications

Input types: Link selectable ± 20 mA, 4 to 20mA

or ± 100 mV, ± 1 V, ± 10 V, ± 100 V

or 0-1k Ω to 0-1M Ω 3 wire slidewire

 80Ω nominal (4 to 20mA)

 $1M\Omega$ on DC voltage

ADC resolution: 1 in 20,000

Accuracy: 0.1% of FS when calibrated (0.3% on

 ± 100 mV and ± 2 mA ranges)

Sample rate: 4 per sec

ADC conversion: Dual slope ADC Microprocessor: MC68HC11 CMOS

Ambient temp: LED models -10° C to 60° C,

LCD models -10°C to 50°C

Humidity: 5% to 95% non condensing
Display types: **LED models:** 4 digit 20mm,

5 digit 14.2mm, status LEDs,

keypad.

LED bar graph 20 segment bar,

5 digit display, keypad

Power supply: 240, 110, 32, 24VAC 50/60Hz,

12 to 48VDC or 50 to 110VDC

(factory configured) AC supply 4 VA max,

Power usage: AC supply 4 VA max, DC supply, consult supplier

Output (standard): 1 x relay, form A, rated 5A resistive

Analog retransmission 4 to 20mA, 0

to 1V or 0 to 10V link selectable

Transmitter supply: 18VDC (25mA maximum)
Relay action: Programmable N.O. or N.C.

Output Options

2nd relay: Same specs as relay 1 2nd, 3rd and 4th relays: Form C rated 5A resistive DC voltage out: Isolated $24V (\pm 12V)$, 20mA

Physical Characteristics

Bezel size: DIN 48mm x 96mm x 10mm Case size: 44mm x 91mm x 115mm

behind face of panel

Panel cut out: $45 \text{mm} \times 92 \text{mm} \text{ (+1mm \& -0mm)}$

Connections: Plug in screw terminals

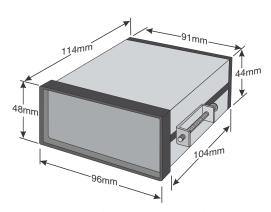
(max 2.5mm² wire) 400g basic model,

450g with option card

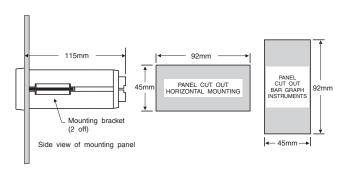
PM4-AM Accessories

Description	Model No.
IP67 access cover	COVER-PM-IP67
Wall mount enclosure	ENC-PM1-02
IP65 wall mount encl. with IP67 cover	ENC-PM1-02-IPCOV
Surface mount kit	PM4-OPT-SMKIT
Portable/bench enclosure AC	ENC-PM-AC
Portable/bench enclosure DC	ENC-PM-DC

PM4-AM case dimensions



PM4-AM panel mounting details



PM4-AM order codes

Weight:

The last section is for optional outputs, if required. (Note: only one of the optional outputs below can be fitted).

