

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 ($\pm 100\text{mVDC}$, $\pm 1\text{VDC}$, $\pm 10\text{VDC}$ or $\pm 100\text{VDC}$) 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.

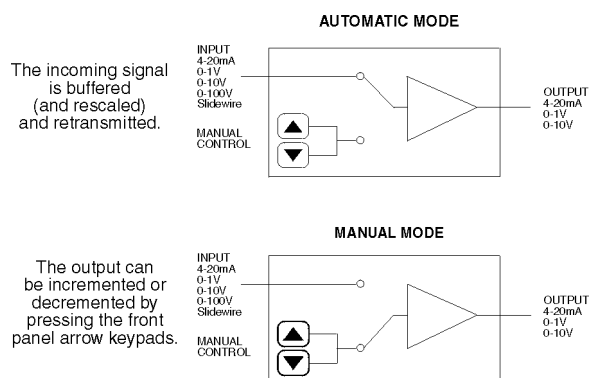
The PM4-AM can be changed between auto and manual by a remote contact closure input or the **P** button. The PM4-AM provides a bumpless auto to manual transfer and a smooth transition between manual to auto (the ramp rate is programmable).

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



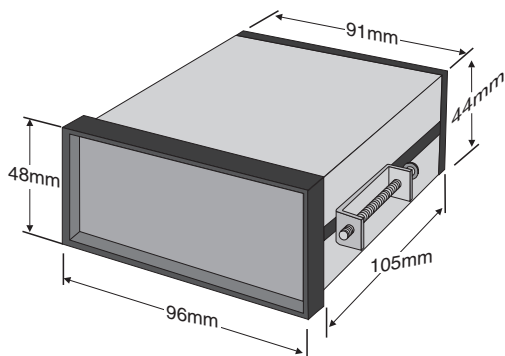
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Specifications

Technical Specifications

Input types:	Link selectable $\pm 20\text{mA}$, 4 to 20mA or DC Volts $\pm 100\text{mV}$, $\pm 1\text{V}$, $\pm 10\text{V}$, $\pm 100\text{V}$ or 0-1k Ω to 0-1M Ω 3 wire slidewire
Impedance:	80 Ω nominal (4 to 20mA) 1M Ω on DC voltage
ADC resolution:	1 in 20,000
Accuracy:	0.1% of FS when calibrated 0.3% on $\pm 100\text{mV}$ and $\pm 2\text{mA}$ 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)
Power usage:	AC supply 4 VA max, DC supply, consult supplier
Output (standard):	1 x relay, form A, rated 5A resistive
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
Retransmission:	Analog 4 to 20mA, 0 to 1V or 0 to 10V link selectable
DC voltage out:	Isolated 24V ($\pm 12\text{V}$), 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:	45mm x 92mm (+1mm & -0mm)
Connections:	Plug in screw terminals (max 2.5mm ² wire)
Weight:	400g basic model, 450g with option card

PM4-AM case dimensions



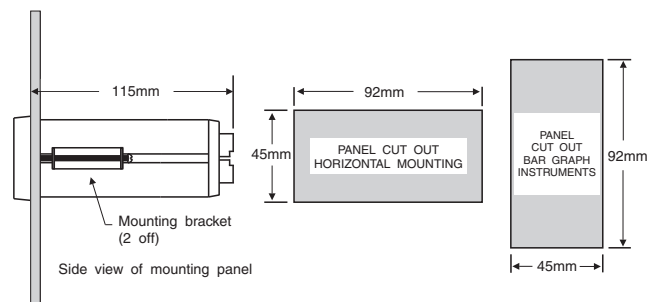
PM4-AM Order Codes

PM4-AM - <input type="text"/> - <input type="text"/> - <input type="text"/>	
Power Supplies	
PM4-AM - <input type="text"/> - <input type="text"/> - <input type="text"/>	
240VAC	<input type="text" value="240"/>
110VAC	<input type="text" value="110"/>
32VAC	<input type="text" value="32"/>
24VAC	<input type="text" value="24"/>
12 to 48VDC	<input type="text" value="DC"/>
50 to 110VDC	<input type="text" value="DCH"/>
Display Type	
PM4-AM - <input type="text"/> - <input type="text"/> - <input type="text"/>	
5 DIGIT LED + KEYPAD & ALARM LEDs	<input type="text" value="5E"/>
BARGRAPH + 5 DIGIT DISPLAY + KEYPAD	<input type="text" value="5BP"/>
Options - Note: The analog option is required	
PM4-AM - <input type="text"/> - <input type="text"/> - <input type="text"/>	
ANALOG (4-20mA, 0-1V or 0-10V selectable)	<input type="text" value="A"/>
ANALOG + 1 EXTRA RELAYS	<input type="text" value="AR"/>
ANALOG + 3 EXTRA RELAYS	<input type="text" value="ARRR"/>

PM4-AM Accessories

Description	Model No.
IP65 access cover	COVER-IP65
Wall mount enclosure	ENC-PM1-01
Wall mount encl. with IP65 cover	ENC-IP65-PM1-01
Surface mount kit	PM4-OPT-SMKIT
Portable/bench enclosure AC	ENC-PM-AC
Portable/bench enclosure DC	ENC-PM-DC

PM4-AM panel mounting details



Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4amman.pdf.