Panel Mount Instruments PM4-PH pH or ORP Monitor



With automatic temperature compensation and temperature display



4 digit LED 20mm digit height



5 digit LED 14.2mm digit height



4 digit LCD 12.7mm digit height



Circular graph and 5 digit display



20 segment bargraph and 5 digit display

Features

- Selectable pH or temperature display
- Can be configured for pH or ORP (Redox) sensor
- Pushbutton calibration and setup
- Two point, offset or grab sample calibration
- Automatic temperature compensation
- High brightness LED displays
- Display flashing over/under range warning
- 240V, 110V, 24VAC, 12-48VDC supply (factory configured) for other variations see specifications (over)
- Programmable digital filter, improves stability
- Alarm/control relay output
- Remote input to perform special functions
- 2 year guarantee

Optional outputs

- Serial output RS232 or RS485 ASCII or Modbus RTU
- Analog output single or dual versions. One output can be configured for either retransmission or PI control
- 1, 3 or 6 extra relay outputs
- Inbuilt or externally mounted 2MByte data logger with serial communications and Windows compatible software

Sensors

Telephone: +61 2 9476 2244

Facsimile: +61 2 9476 2902

A wide variety of pH sensors are available to suit most applications - visit pH and ORP sensors and Electrode manual

Other pH/ORP(Redox) and related products

See also models: RM4-PH DIN rail mount TP4-PH dual input wall mount IP65 TH3-PH pH transmitters Datalogger Download software

PM4PH-4.3-0

e-mail: sales@aicpl.com.au Internet: www.aicpl.com.au

ACN: 001 589 439

Specifications

Technical Specifications

Input types: pH - any electrode where Eo=7 or

standard platinum Redox (ORP)

electrode (-2V to +2V nom.)

Input resistance: Greater than $10^{10}\Omega$

Temperature Input: $100\Omega \ 1000\Omega \ RTD$, LM335,

 $3k\Omega Balco$ thermistor or manual

Measuring range: pH 0.00 to 14.00

Temperature -40 to 130° C

Accuracy: 0.2% of full scale (pH)
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 14mm, status LEDs, keypad. LED bar graph 20 segment bar, 5 digit

display, keypad

16 segment circular bargraph, 5 digit

display, keypad **LCD models:** 4 digit 12.7mm

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

12-48VDC or 50-110VDC (factory configured)

Power usage: AC supply 4 VA max,

DC supply, consult supplier

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

Relay action: Programmable N.O. or N.C.

Output Options - see order codes for full list

1, 3 or 6 extra relays Same specs as relay 1 (form C optional)

Retransmission: Analog 4-20mA, 0-1V or 0-10V

(single or dual channel versions)

Serial RS232 or RS485, choice of ASCII

or Modbus RTU protocols Digital Binary or BCD

DC voltage out: Isolated 24V ($\pm 12V$), 20mA

Physical Characteristics

Extra relays:

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)

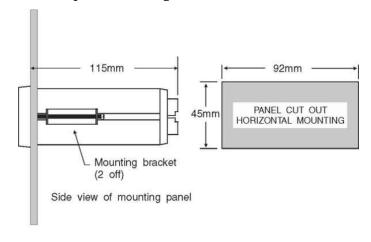
Connections: Plug in screw terminals

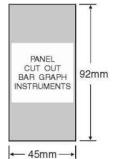
(max 2.5mm² wire)

Weight: 400g basic model,

450g with option card

PM4-PH panel mounting details

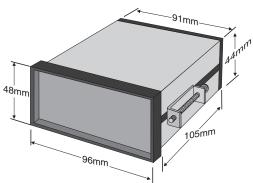




PM4-PH Accessories

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-PH case dimensions



Wiring diagrams and full operations manual are available from www.aicpl.com.au/pdf/pm4phman.pdf.

Telephone: +61 2 9476 2244

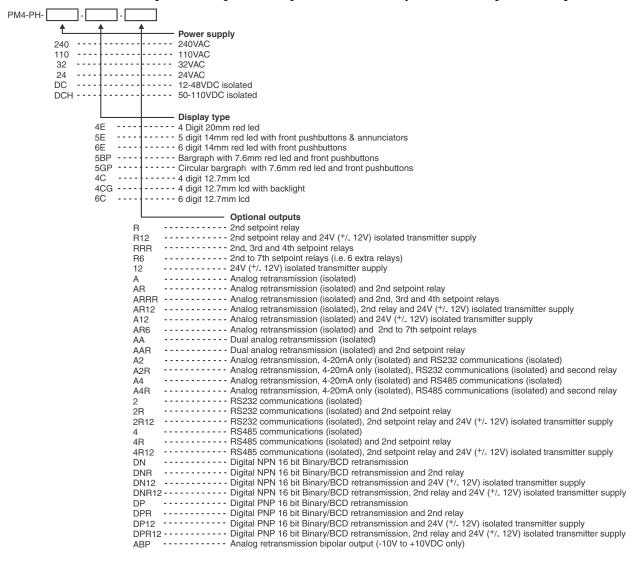
Facsimile: +61 2 9476 2902

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PM4-PH order codes

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



Applications/input types available with panel mount display models

- Analog input, process transmitters etc. ± 20 mA, 4-20mA or ± 2.5 VDC or ± 25 VDC
- Pulse input, rate, total, count, grand total (encoders, switches, proximity sensors etc.)
- Rate, total from quadrature pulse input
- Liquid conductivity/resistivity/ppm
- pH/Redox (ORP)
- Loop powered displays
- AC current or AC voltage input
- Temperature RTD, thermocouple, 4-20mA
- Weighing 4 or 6 wire mV/V output loadcells
- Pressure measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Liquid level measurement 4 or 6 wire mV/V pressure sensors or 4-20mA analog transducers
- Serial input RS232, RS485, Serial current loop for slave displays etc.
- Synchronous Serial Interface (SSI) for high accuracy position etc. measurement
- Binary, BCD or Gray Code input
- Real time clock with alarms
- Timer, elapsed time, stopwatch, run time etc.
- Auto/Manual station

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