

Programmable Process Monitor

Offers Scaling, Alarms, timers, built in AC-line filter & a buzzer



Only **\$199**
Base Unit

FEATURES

- Front panel entry of Scaling, Offset and Tare.
- Built in AC-line filter for harsh industrial environment.
- Tracks min/max readings.
- Three programmable alphabets for indicating engineering units e.g. PSI, yds, Ft etc.
- Four limit relays for alarm or control.
- Limits programmable as normally open, normally closed, latching or non latching.
- Two timers with solid state outputs.
- Security password for preventing unauthorized program changes.
- Offers eight different display modes.
- Saves parameters in EEPROM on power down.
- Built-in buzzer to sound alarm.
- Displays change in process signal.
- Keeps track of process run time.
- Constantly monitors rate of change.
- Relay status indication.
- Remote display hold capability.
- Compact 1/8th DIN (cutout) enclosure.

DESCRIPTION

The PPM series accepts a linear voltage, current or millivolt signal at its input, converts it into desired engineering units, and then displays it. In addition, it also monitors a number of useful functions such as high and low process readings, change in process value from any given point, process run time, rate of process change etc.

Keys are appropriately labeled, so that the user would not have to memorize their functionality. A passcode requirement keeps unauthorised personnel from changing critical parameters such as limits, scaling etc.

Input signals are displayed in engineering units that correspond to the process being monitored e.g. if measuring pressure, the input signal can be scaled to give the reading directly in PSI. Scaling is accomplished from the front keys and does not require any tedious formulas. Also offered is a tare function for weighing and any similar applications.

For Control and alarm functions, the unit has four programmable limits. A built in buzzer sounds an audio alarm whenever a limit is reached and any relay gets activated. Also featured is process runtime



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indication and two timers with outputs. One of the timer outputs can also be configured as a process change alarm (deviation alarm). This output activates when process deviates by a programmed amount from the reference point.

An attractive feature of PPM series are the three alphabets that can be programmed to indicate engineering units e.g. PSI, YDS, etc. This is specially useful for indicating different processes side by side e.g. temperature and pressure (C & PSI).

PPM series can be programmed to indicate in one of

eight possible display modes:

1. Display Process
2. Display rate of change
3. Display deviation
4. Display max reading
5. Scan all parameter
6. Display min reading
7. Display process change
8. Display elapsed time

If scan mode is selected, all the above parameters are briefly displayed in a sequence.

Input, power and output connections are conveniently located on the back of the instrument and are made through pluggable Euro-style screw terminals.

SPECIFICATIONS

INPUT TYPE:

- i) Loop Current: 4-20ma, 0-50ma
- ii) Voltage: 0-5vdc, 0-10vdc
- iii) Millivolt: 0-100millivolt

Other Inputs available: Consult Factory

ACCURACY:

Voltage = 0.05% FS Current = 0.05% FS

ANALOG TO DIGITAL CONVERSION:

20,000 count A/D converter
Dual slope integrating converter.
Conversion rate: Seven conversions/sec (typical)

DISPLAY:

Red 7-segment LED display, 0.39 inch height
Negative polarity and over-range indication.
Display test: 8.8.8.8.8.8. on power up

ELAPSED TIME:

Displayed in hours, minutes & seconds.
Display format: HH.MM.SS

POWER OPTION:

120VAC -- 60 Hz (Standard)
220VAC -- 50 HZ (Optional)
8VDC -- 12VDC @ 900ma (optional)

SCALE/OFFSET:

Scale programmable from 1 - 30000
Offset : 0 - 20.00 (current), 0 - 10.000 (voltage),
0 - 100.0 (millivolt)
Decimal Point: 9999, 999.9, 99.99, 9.999

RELAY/OPEN COLLECTOR OUTPUT:

Relays: Single pole single throw, 1 amp @ 28vdc
or 0.5 amp @120vac
Open Collector output: 100ma maximum (internal 5vdc source).
Outputs programmable as normally open , normally closed, latching or non latching.

RATE:

Displayed as rate of process change/minute.

DIMENSIONS:

Case: 3.60" x 1.75" x 8.5"
Bezel size: 4/40" x 2.25" x 0.45"

Ordering Guide

To find a model number, fill in blanks 1, 2 and 3 with appropriate selection. Refer to ordering example below:

