wall mount **Programmable Process Monitor**

Offers Programmability, Multiple Display Modes, Scaling, Alarms, Timers & a Buzzer

KAIF DIGITAL

8.20 PSI

Made in U.S.A.

| PR.CNG 1 | TIMER 2 | LIMITS 3 | RATE 4 |
| RESET | SETUP | DATA | ◄DIG► |

HI/LO 5
▲DIG▼

Process Indicator with Limits & Timers

LIMIT 1 · TIMER1
LIMIT 2 · TIMER2
LIMIT 3 · DSPLY HOLD
LIMIT 4 · SET UP
OUTPUT STATUS

wPPM 100 Series

Only **$345** *Base Unit*

POWERFUL DISPLAY MODES
- *Large 7-Segment LED Display (0.8")*
- *Process Readings in Engineering Units*
- *Programmable Eng Unit Labels - PSI, Ft, etc.*
- *Multiple Programmable Display Modes*
- *Frequently Used Math Functions*
- *Timer for Process Run Time*
- *Remote Display Hold*

FULLY PROGRAMMABLE
- *Fully Programmable Via Front Keys*
- *Scaling, Offset & Tare Functions*
- *Password for Security*
- *Program Settings Retained on Power Down*

MULTIPLE I/O CHOICES
- *Current, Voltage & Millivolt Process Inputs*
- *Scaling for Voltage, Current & Millivolt Signals*
- *Four Programmable Process Alarms (optional)*
- *Relay or Solid State Outputs (optional)*
- *Alarm Status Indication on Front Panel*
- *Built-in Buzzer to Sound Alarm (optional)*
- *Two Programmable Timers (optional)*

DESCRIPTION

Housed in a wall-mount, water-tight plastic enclosure, the wPPM 100 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 personel 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 indication and two timers with outputs. One of the timer outputs can also be configured as a process

KAIF DIGITAL
...We put you in Control!

change alarm (deviation alarm). This output activates when process deviates by a programmed amount from the reference point.

An attractive feature of wPPM 100 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).

wPPM 100 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, 0.8 inch height
  Negative polarity and over-range indication.
  Display test: 8.8.8.8.8.8.8. 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: 50ma 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: 7.55" W x 6.29" H x 4.05" D
  Ingress Protection: Up to IP65 (DIN standard)

Ordering Guide

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

wPPM ① _ _ ② _ _ ③ _ _

wPPM = wall-mount Programmable Process Monitor

1 = 4-20 Milliamp loop Current
2 = 0-50 Milliamp loop Current
3 = 0 - 5 VDC
4 = 0 -10VDC
100mv = 0-100 Millivolt

5 = 120VAC
6 = 240VAC
7 = 15VDC

R = 4 Limit Relays plus two open
        collector timer outputs.
OC = 6 Solid State outputs (Open
        Collector) -- 4 Limits, 2 Timers.

Ordering Example: wPPM100/1/5/R -- wall-mount Programmable Process Monitor with 4-20ma loop current input, 120vac Power and relay output option.