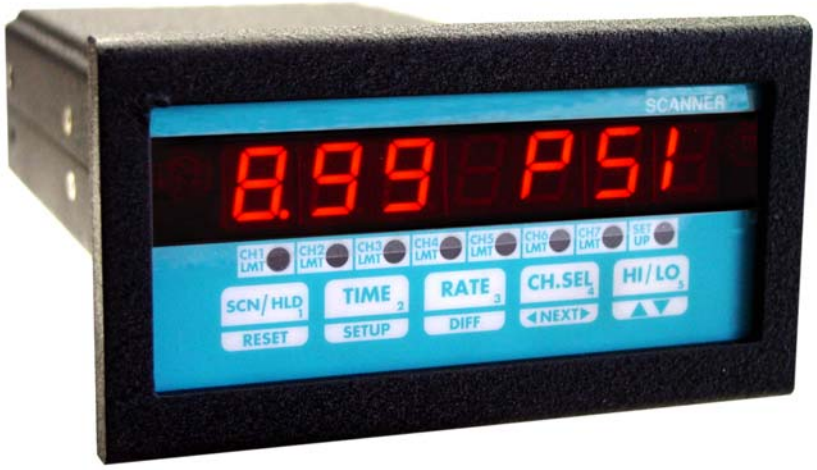
Programmable Counter/Rate Monitor

A multi-faceted unit that offers six different up/down Counter modes, Rate indication, RPM and Frequency monitoring plus Total, Batch counting, alarms and timers.



Only

$199

Base Unit

FEATURES

- **Up/down Counter, Rate, RPM and Frequency monitoring in a single unit.**
- **Six different Counter modes with a max. count of 9,999,999.**
- **Displays frequency in 0.01Hz resolution.**
- **Programmable time base for rate.**
- **Rate gain feature for faster rate update.**
- **Flexible scaling allows the reading to be displayed in engineering units.**
- **Works as a totalizer & batch counter.**
- **Two programmable outputs for total & batch control.**
- **Two limit relays for alarm or control.**
- **Limit outputs programmable as normally open, normally closed, latching or non latching.**
- **Two timers with solid state outputs.**
- **Remote reset capability.**
- **Tracks min/max readings.**
- **Security password for program changes.**
- **Retains user settings on power down.**
- **Built-in buzzer to sound alarm.**
- **Power line filter for high reliability**
- **Keeps track of process run time.**
- **Compact 1/8th DIN (cutout) enclosure.**

DESCRIPTION

he programmable counter/rate monitor is a highly versatile instrument that is capable of working as an up/down counter, rate, rpm, or frequency monitor. Selection of different operating modes is easily accomplished from the front keys.

COUNTER MODE: In counter mode the unit may be configured as an up/down counter with auto/manual reset or preset. Four preset limits may be operated with built in delay timers. A seven digit display permits a maximum count of 9,999,999 at a frequency of up to 1 MHz. Following are the six different counting modes:

1. *Count up with non-latching outputs*
2. *Count up with latching outputs*
3. *Count up with output delay timer.*
4. *Count up, auto reset & output delay timers*
5. *Count down with manual preset.*
6. *Count down, auto preset & delayed output*

RATE MODE: As a rate indicator, the PCR series features crystal controlled accuracy and provides the flexibility of a programmable time base for sampling. Time base can be set from 0.100 to 9999.999 seconds, in increments of 0.001 second. A rate gain feature allows for quick update on rates with longer time bases.

RPM MODE: In this mode, the unit counts incoming pulses and displays the data as revolution per minute. A filter feature is used to smooth out rapidly changing data, or to view rapid speed changes.

KAIF DIGITAL

...We put you in Control!

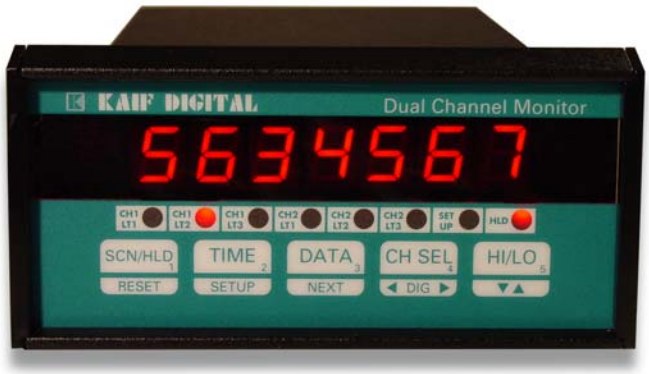
For further information, contact:
Tel. No: (480) 607-3100
Fax No: (480) 607-3101
www.kaifdigital.com

FREQUENCY MODE: In this mode an internal crystal reference is used to indicate the frequency of incoming pulses. Measured frequency range is from 2 Hz to 2MHz. Two modes of operation are supported:

1. *High frequency mode (resolution = 1 Hz)*
2. *Low frequency mode (resolution = 0.01 Hz)*

TOTAL/BATCH CONTROLLER: The unit works as a totalizer by accumulating incoming or scaled pulses. It also keeps a count on number of batches. Additionally, two outputs can be configured to provide a control signal when a preset total or batch count is achieved.

Additional features include tracking of Min/Max readings in all modes. Remote reset allows clearing the displayed reading with an external switch. A built-in buzzer sounds an alarm whenever a limit is reached. Visual indication of relay output status is given by LEDs on the front panel. The unit has a watchdog timer and a power line filter designed in to provide trouble free operation in harsh industrial environment.



Display upto seven digit count

SPECIFICATIONS

INPUT SIGNAL:
* Input accepts pulses or square wave.
* Schmitt trigger on input:
Input low = 0.0 Vdc, min. 0.6 Vdc, max.
Input high = 2.5 Vdc, min. 5.0 Vdc, max.

RPM/COUNT/RATE/FREQUENCY LIMITS:
* RPM range: 1- 999,999 RPM
* COUNT range: 1 - 9,999,999 counts
* RATE range: Varies with time-base --- 9,999,999 max.
* Rate Time base: 100 milliseconds to 9,999.999 seconds
* Time base increment: 1 millisecond (0.001 second)
* High frequency range: 2 Hz to 2 MHz
* Resolution in high frequency mode = 1 Hz.
* Low frequency range: 2.00 Hz to 5000.00 Hz.
* Resolution in low frequency mode: = 0.01 Hz.

DISPLAY:
* Red 7-segment LED display, 0.39 inch (10mm) height
* Display test: Briefly indicates 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)

RELAY/OPEN COLLECTOR OUTPUT:
1.Open collector - 4 open collector outputs, maximum sink capability of 50ma per output
2.Relays: Single pole single throw, 1 Amp @ 28Vdc or 0.5 Amp @ 120Vac resistive
Output termination: Euro-style plugable connector
* Outputs programmable as normally open , normally closed, latching or non latching.

LIMIT DELAY TIMERS:
* Programmable in seconds --- Max. time: 9999 seconds.

TIMERS:
* Programmable in minutes --- Max. limit = 9999 minutes

DIMENSIONS:
* Case: 3.60" x 1.75" x 6.7" (7.3" with Connectors)
* Bezel size: 4.7" x 2.25" x 0.28"
* All Aluminum enclosure.

ORDERING GUIDE

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

PCR / 1 / 2

- **PCR** = PCR = Programmable Counter/Rate Monitor
- **1** = 5 = 120VAC, 6 = 240VAC, 7 = 15VDC
- **2** = R = 4 Relays plus two audio/visual outputs; OC = 4 Solid State outputs (Open Collector)

Ordering Example:
PCR/5/R -- Programmable counter/rate indicator, 120vac Power and relay output option.