VEEDER-ROOT brand
Electronic Timers

Series 7990

Use totalizers, tachometers, hourmeters, or precision elapsed timers?
. . . just one FLEX model replaces any one of these functions at a very low price

Highly versatile, the **FLEX** can be programmed at installation to operate as a totalizer, tachometer (Model 799008-201 only), or elapsed time meter. Use two or three of them and have matching control panel instrumentation for count, speed, and time. Standardize them throughout your plant, and reduce inventory by stocking just one indicator instead of several.

■ Large, easy to read 8-digit LCD (4-digit, tachometer mode)
■ Heavy, die-cast enclosure for industrial duty application
■ Simple programming procedure selects operating mode and other functions
■ Tamper proof programming mode lock
■ Operates without external power – long life lithium battery
■ Totalizer mode has input scaling and selectable decimal point
■ Tachometer mode (Model 799008-201) has input scaling, and decimal point
■ Timer modes for hours, minutes, seconds with choice of time increment
■ Front panel reset, remote reset, or nonreset operation
■ NEMA-4 rated front panel – sealed against water and dust

Many convenience features are included, such as adhesive labels preprinted with popular engineering unit identifiers, security locks for reset and programming, and accessory snap-on adaptor modules for screw-terminal wire connection or converting high-voltage input signals.
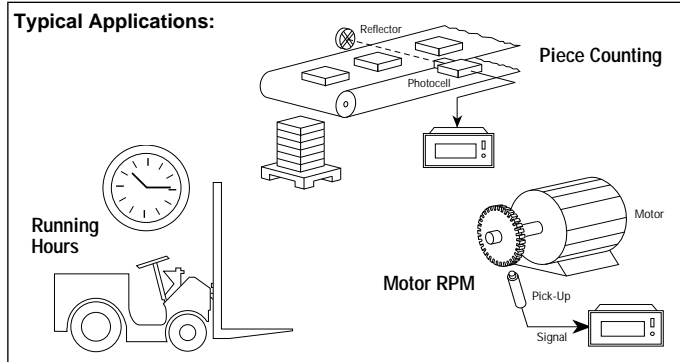
SPECIFICATIONS

Display: Eight-digit LCD (four-digit in rate mode), 0.35" (8.9 mm) high characters
Power Source: Internal lithium battery; eight-year typical life
Temperature Range: +32° to +167°F (0° to +75°C)
Time Base Accuracy: ±0.01%, ±1 count (time and rate modes only)
Environmental Integrity: NEMA 4 when using panel gasket provided

Weight: 5.5 oz. (156 g)
Signal Inputs: High Speed: For use with logic level voltage, TTL, CMOS, open collector NPN transistor, or magnetic sensor; Frequency Response: 10 kHz (50% duty cycle); Low Speed: For use with isolated switch/relay contact; Frequency Response: 25 Hz (50% duty cycle)
Input Count Logic: Programmable choice of X1 or X2
Reset: Front panel push-button (may be disabled) and remote reset for counter and elapsed time modes
Connections: Integral plug; mating connector provided (accessory screw-termination adaptor available)
Function Selection: Access set-up mode through recessed stylus switch on front panel; jumper connection can restrict access to the set-up mode
Operating Functions: Totalizer: Eight-digit capacity, programmable prescaler (divide by 1 to 9,999); programmable decimal point
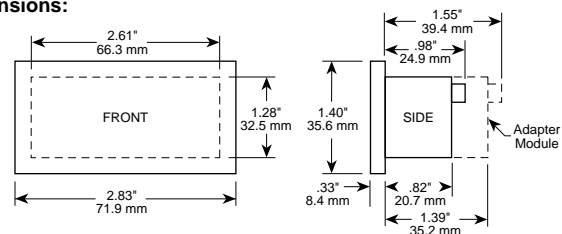**Elapsed Time Indicator:** Eight-digit capacity; programmable ranging for resolution of hours, minutes, (decimal placement for whole units, tenths, or hundredths); or seconds
Hour Meter: Eight-digit capacity; registers hours in while units, tenths, or hundredths (no reset function)
Rate Indicator (Form Number 799008-201 only): Four-digit capacity; registers in RPM or other engineering unit; prescaler allows multiplication of input signal by 0.001 to 9,999; programmable decimal point

Model No.	Description
799008-101	Totalizer, Elapsed Time Indicator, Hourmeter
799008-201	As above plus Tachometer/Rate Indicator Function
328992-010	Screw terminal adaptor
328992-020	AC/DC voltage adaptor; allows signal input from 24 to 270 volts AC/DC; 10 Hz, maximum
328992-030	TRIAC voltage adaptor; allows signal input from solid-state 115 VAC switching devices; 10 Hz maximum
328992-120	PANEL OPENING ADAPTOR; lets flex fit in 3.78"x1.75" cut-outs; retrofit Series 7443, 1205, 7997 or 7995 (except lock & Key reset types)
328992-110	PANEL OPENING ADAPTOR; same as above except accommodates retrofit of lock & key reset models of Series 7443, 1205, 7995, or 7997

Typical Applications:

Dimensions:

Panel Dims: Cutout: 2.63" x 1.31". Thickness: 0.08" to 0.25". Depth: 0.70" min.

DANAHER CONTROLS