# MODGMN-GO 

## Features

- Analog Input
- Display Total, Rate or Grand Total
- Two Alarm Outputs, User Selectable for Total, Rate or Grand Total
- K-Factor Programmable to 8 Places
- Two Stage Security Lockout
- NEMA 4X/IP 65 Front Panel


## Description:

Featuring 8 digits of bright, .55", alpha-numeric display, the IN-60 accepts analog inputs of 4 to 20 mA .. The standard IN-60 has two separate, 8 digit, floating decimal, "K" factors to convert the inputs to meaningful total and rate data. The user, with the push of a button, can toggle back and forth to view the total of the batch, the rate of flow and the grand total count. Two control outputs can be assigned independently by the user to activate at preset batch total, rate or grand total for .1 to 9.9 seconds or until reset.

## Specifications:

## Display:

8 Digit, .55" High, 15 Segment, Red Orange, LED.
Input Power (Internally Fused)
110 VAC $\pm 15 \%$ or 12 to 27 VDC
Current: Maximum:
3.2 VA at rated AC voltage.

Output Power:
+12 VDC at 100 mA . Separate Isolated 12 VDC at 100 mA to allow +12 VDC or +24 VDC regulated $\pm 5 \%$ worst case.
DC Outputs are supplied with resettable fuses.

## Memory:

EEPROM stores all program and total data for minimum of 10 years if power is lost.

TOTALIZER / RATEMETER


Analog Inputs:
The current loop input is converted to a highly linear 0 to 10 kHz frequency. This frequency can then be scaled by the 8 digit K-Factors to total or display rate in separate engineering units.
Accuracy over full temperature range:
Zero error: $+0.175 \%$ full scale max.
Overall error: $+0.5 \%$ full scale max.
Input: 4-20mA, 250 Ohm impedance

## Reset:

Front push button: "Clear" resets displayed number and control output. Remote: 3 to 30 VDC positive edge resets the totalizer and control output. Impedance: 10K to ground (-DC) Minimum pulse: 5 msec .
Temperature:
Operating: $+32^{\circ} \mathrm{F}\left(0^{\circ} \mathrm{C}\right)$ to $+130^{\circ} \mathrm{F}\left(+54^{\circ} \mathrm{C}\right)$.
Storage: $-40^{\circ} \mathrm{F}\left(-40^{\circ} \mathrm{C}\right)$ to $+200^{\circ} \mathrm{F}\left(+93^{\circ} \mathrm{C}\right)$.
Humidity:
0-90\% Noncondensing
Listing:
CE Approved, UL/CSA Pending
Totalizer:
Each of the total and grand total counters have 8 digits. In the set-up mode choose "R0" (reset to zero) for adding operation or "SP" (set to preset) for subtracting operation. While viewing the total, the display can be made to flash the grand total by pressing "ENT". Activating "CLR" while the grand total is flashing, resets the grand total counter.

## Ratemeter:

The rate meter can be programmed to accept almost any number of pulses per unit of measurement, sample from 2 to 24 seconds maximum, and autorange up to 6 digits of significant information. The rate meter with a " K " factor of 1 displays the rate of pulses per second. Simply dial in the proper "K" factor to display in minutes, hours or other units of measurement. Press the " $C$ " button while the unit is displaying the total to display the rate; " $R$ " is displayed on the left side of the display.

## Lockout:

Two stage lockout available for allowing change of presets only or total lockout of front panel parameter changes. Unauthorized front panel changes can be prevented by entering a user selected four digit code.

## Control Outputs:

2 SPDT Relays: 10A 120/240 VAC or 28 VDC (Standard).
K-Factor:
In the standard unit a fixed K-Factor is used to convert the frequency generated internally by the analog input to engineering units. The 8 digit K-Factor dividers, with decimal keyed into any position, allow easy direct entry of any K-Factor greater than 0.0001 to 99999999. Separate K-Factors may be entered for the total and rate section. Thus, you may batch and total in gallons and display rate in liters per hour. The maximum factored count speed is $20,000 \mathrm{~Hz}$. The maximum factored rate is 7 digits.

## Dimensions:

## Termination:




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Part\# Description
IN-60 4-20 mA Analog Input, 110 VAC or 12-27 VDC, 2 Control Relays

