

NuFlo™

# MC-II™ Flow Analyzer

The MC-II Flow Analyzer provides separate, continuous digital displays of flow rate and accumulated flow based on input from a NuFlo turbine flow meter. The low current consumption of its liquid crystal displays and CMOS microprocessor based circuitry enable it to run from 3 to 5 years on a single lithium battery.

Totalizer readings can be made in any desired volumetric units, and flow rates can be measured in units per minute, hour, or day. Calibration for both rate and totals may be accomplished by using the membrane switches on the front of the MC-II. The instrument is suitable for outdoor installation and requires no additional protection from the weather. The unit may be mounted directly on the turbine meter or attached remotely.

## Specifications

(standard unit without options):

- Size: 7.3" wide x 8.3" high x 3.4" deep
- Weight: 6 lb including shipping container
- Power Supply: One 3.6 volt lithium battery
- Current consumption: 200 microamps
- Temp. Range: -40 to + 140°F
- Totalizer: Six digits, registering barrels (1/10/100, available) Divisor capabilities from 1 to 32,767 Maximum count rate is 35 Hz
- Flow rate: Six digits, registering barrels per day, updates once per second
- Accuracy:  $\pm 1$  count (Totalizer)
- Input frequency: 0 to 2000 Hz
- Input amplitude: 30 to 3000 mV peak to peak
- Signal cable: 1 ft

## Optional Features

(specify those desired):

- Totalizer and flow rate units other than "bbl" and "bbl/day" – specify totalizer units and/or flow rate units
- Reset switch: Internal jumper to allow resetting totalizer to zero from front panel
- Additional signal cable: Specify lengths desired; up to 2500 ft may be used



- Remote mounting hardware: Stainless steel, for installation on 2" nominal pipe, horizontal or vertical. (Use of this option will require additional signal cable. See option above)
- Calibration enable: Internal jumper to allow calibration changes from front panel
- Pulse output powered by customer's source  
For intrinsically safe (50 - 60 ms duration), specify:
  1. Dry contact relay – 5 volt coil, 200 mA max, 6 VDC max
  2. Open collector transistor – 200 mA max, 6 VDC
  3. Optically isolated transistor – 100 mA, 6 VDCFor non-intrinsically safe (50 - 60 ms duration), specify:
  1. Relay – 5 volt coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
  2. Relay – 12 volt coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
  3. Relay – 24 volt coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
  4. Open collector transistor – 0.3 A max, 30 VDC max
  5. Optically isolated transistor – 0.1A max, 30 VDC max

## Approvals

- UL listed, CSA Certified intrinsically safe in hazardous locations Class 1, Group A,B,C,D



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