

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 turbine flowmeter. The low current consumption of its liquid crystal displays and CMOS micro-processor based circuitry enable years of dependable performance from a single lithium battery. Typical battery life is 3 to 5 years.

Totalizer readings can be made in any desired volumetric units, and flow rates can be measured in units per second, minute, hour, or day. Rate and total are quickly and easily calibrated using the keypad 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-in. wide x 8.3-in. high x 3.4-in. deep
- Weight: 6 lb including shipping container
- Power supply: One 3.6 volt lithium battery
- Current consumption: 200 microamps typical
- Temperature range: -40 to +140°F; -40 to +60°C
- Totalizer and flow rate display: Six digits
- Divisor or calibration factor range: 0.001 to 999,999
- Standard units: bbl and bpd (other units available)
- Accuracy: +/- 1 count (totalizer)
- Input frequency: 0 to 3,500 Hz
- Input amplitude: 30 to 3,000 mV peak to peak

Optional Features (specify those desired):

- Totalizer and flow rate units other than "bbl" and "bpd" – specify totalizer units and/or flow rate units
- Total reset: Password-secured access allows user to reset totalizer to zero from front panel
- Calibration enable: Password-secured access allows user to change calibration settings from front panel
- Remote mounting hardware:
 - Stainless steel, for installation on 2-in. nominal pipe, horizontal or vertical
 - 10 ft signal cable assembly is standard with the remote mount option. (additional lengths are available – consult factory)



*Improved,
simplified
calibration*

- Pulse output (available with non-ATEX model)
 - Powered by customer's source
 - For intrinsically safe (50 - 60 ms duration), specify:
 - Dry contact relay – 5 volt coil, 200 mA max, 6 VDC max
 - Open collector transistor – 200 mA max, 6 VDC
 - Optically isolated transistor – 100 mA, 6 VDC
 - For non-intrinsically safe (50 - 60 ms duration), specify:
 - Relay – 5 V coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
 - Relay – 12 V coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
 - Relay – 24 V coil, 0.5 mA max, 30 VDC max, 10W max (resistive)
 - Open collector transistor – 0.3 A max, 30 VDC max
 - Optically isolated transistor – 0.1A max, 30 VDC max

Approvals

- CSA-certified in US and Canada, intrinsically safe in hazardous locations Class I, Division 1, Groups A, B, C, D; Type 4 enclosure
- ATEX-certified, II 1G Ex ia IIC T4 IP66
- Compliant with EMC Directive



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