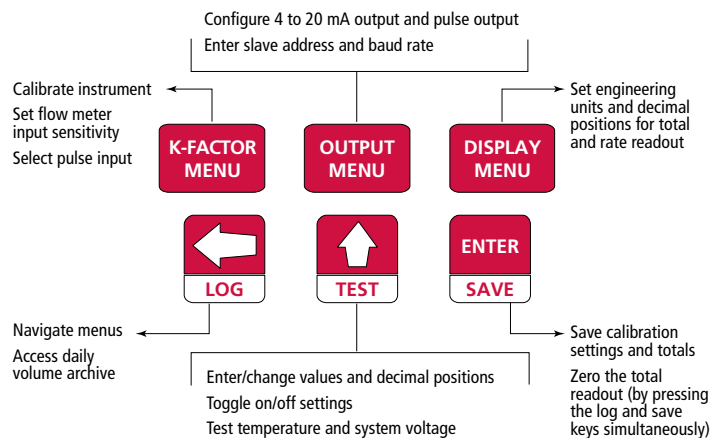


NUFLO MC-III Panel Mount Flow Analyzer

Cameron's NUFLO™ MC-III™ Panel Mount Flow Analyzer offers state-of-the-art liquid and gas measurement with data logging and Modbus® communications in an easy-to-use totalizer with a standard 1/4-DIN mount. With the capacity to record up to 384 daily flow logs, 768 hourly logs and 345 event logs, the MC-III is a powerful addition to any flow measurement operation.

Keypad Configuration

The NUFLO MC-III Panel Mount is easily configured with the six-button keypad on the front of the instrument. Built-in shortcuts to common functions reduce the user's time spent on site.

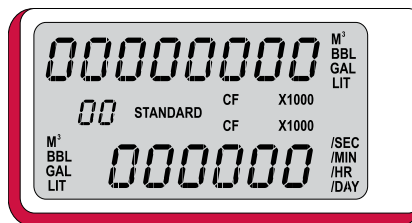


Inputs/Outputs

The NUFLO MC-III Panel Mount connects to a turbine meter or a pre-amplifier. Users can select a 4 to 20 mA output a pulse output or an amplified flow meter frequency output that allows remote equipment to calculate flow rates and volume.

Calibration

Calibrating the NUFLO MC-III Panel Mount for liquid measurement is as easy as entering the calibration factor of the flow meter and selecting the desired units of measurement. The instrument automatically calculates its own divisor.



When the instrument is paired with a gas flow meter, the user enters the calibration factor of the meter, pressure and temperature parameters and FPV via the MC-III interface software.

The wide variety of unit options for total and rate gives users the freedom to customize the display, inputs and outputs for specific needs.

TECHNICAL SPECIFICATIONS



Modbus communication, logging and accurate flow measurement – all in one compact panel mount device

Features

The NUFLO MC-III Panel Mount offers:

- RS-485 Modbus communications
- Extensive log archival capacity
- High-speed downloads (less than a minute, based on 115K baud)
- Easy-to-read LCD displays
- 12-point linearization
- Simultaneous indication of rate and total
- Loop-powered analog output
- Nonvolatile memory
- Password protected security options

Display

- Eight-digit display of total
- Six-digit display of rate (11-segment characters for easy-to-read prompts)
- Character height - 0.300"
- Adjustable contrast and update period
- User-selectable units of measurement:
 - Total: bbl, gal, liters, cubic meters, cubic feet, standard cubic feet, user-defined units (and all units x 1000)
 - Rate: Any of the above total volume units per day, hour, minute or second

Power Supply Options

- 3.6 VDC lithium battery pack
 - Two-year typical life (main or backup power supply)
 - Transport is subject to hazardous goods restrictions
- External power supply (6 to 30 VDC) with internal battery backup
- Loop-powered (4 to 20 mA output) with internal battery backup

Temperature Range

- -40° F to 158° F (-40° C to 70° C)
- LCD contrast is reduced below -4° F (-20° C)

Mounting

- Standard 1/4-DIN (3.62" x 3.62")

Inputs

Turbine Meter Input

- Configurable sensitivity adjustment
- Frequency range: 0 to 3500 Hz

Remote Reset Input

- Optically isolated
- Supply range: 3.0 to 30 VDC

Pulse Input

- Optically isolated
- Supply range: 3.0 to 30 VDC

Outputs

Analog Output

- 4 to 20 mA, loop-powered (two-wire)
- 16-bit resolution
- Accuracy: 0.1% of FS at 77° F (25° C), 50 PPM/° C temperature drift

Analog Output cont.

- Loop power: 8.0 to 30 VDC
- Zero and full-scale engineering values configurable from front panel

RS-485 Communications

- Baud rates: 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600 and up to 115.2K

Volumetric Pulse Output

- Solid-state relay
- Output rating: 60 mA max at 30 VDC
- Configurable pulse duration and scale factor

Amp and Square Output

- Open-drain transistor output of turbine meter input signal
- Output rating: 50 mA at 30 VDC (analog output and amp and square outputs cannot be used simultaneously)

Flow Archive

- 384 daily logs
- 768 hourly logs
- 345 event logs
 - K-factor changes
 - Input setting changes

Communications/Archive Retrieval

- RTU mode Modbus
- Enron Modbus
- 16-bit slave address supported
- Data printouts in tabular or chart formats
- Data export to spreadsheet (.xls and .csv formats)

MC-III Interface Software

- Provided at no additional charge
- Complete configuration to include multi-point and gas calibration
- Real-time data
- Downloads
 - Reports
 - Charts
 - Exports to .xls and .csv formats
- Wizard offers step-by-step calibration procedure
- Windows® 7, 2000 or XP required

LOCATIONS

North and South America

14450 JFK Blvd.
Houston, TX 77032
USA
Tel 1 281 582 9500
ms-us@c-a-m.com

Europe, Africa, Caspian and Russia

3 Steyning Way
Southern Cross Trading Estate
Bognor Regis
West Sussex PO22 9TT
England, UK
Tel 44 1243 826741
ms-uk@c-a-m.com

Asia Pacific

Suite 16.02 Menara AmFirst
No. 1 Jalan 19/3
46300 Petaling Jaya
Selangor Darul Ehsan
Malaysia
Tel 603 7954 0145
ms-kl@c-a-m.com

Middle East

Level 9, Al Jazira Club Tower A
PO Box 47280, Muroor Road
Abu Dhabi
United Arab Emirates
Tel 971 2 596 8400
ms-uk@c-a-m.com

OTHER LOCATIONS

ALGERIA

CANADA

CHINA

INDIA

MALAYSIA

RUSSIA

UAE

UK

USA

www.c-a-m.com/measurement