

# MV210

ISOMAG



FLOMOTION  
SYSTEMS

## AC or DC OPERATED CONVERTER FOR ISOMAG ELECTROMAGNETIC FLOW METERS

### Next generation solution for full-pipe flow measurement

The new high power MV210 converter is designed for applications in water, wastewater and other industrial markets where basic measurement requirements or output protocols are required. High power coil excitation means better performance with low conductivity or higher solids content/

- Accuracy:  $\pm 0.2\%$  of the reading
- Repeatability:  $\pm 0.2\%$
- Programmable through keypad on front panel or via PC connected through mini-B USB cable adapter
- Flexible mounting so that display can be seen from the top or from the front
- Galvanic separation: all inputs and outputs are separated from each other and from the power supply
- Housing material: Nylon reinforced with 15% fiberglass, or Aluminum
- Protection rating: NEMA 6 (IP 67) IP68 on request

#### Standard features:

- Compatible with any Isomag® flow sensor
- Low flow rate cut-off
- Bidirectional measurement
- Batching Functions
- Peak cut-off
- Empty pipe detection
- Alarm limits
- Large back-lit LCD display with protective cover

#### Available accessories:

- Rechargeable backup battery (assures the measurement in case of power loss)
- 4 GB data logger
- Built-in Verificator (BIV) for verifying electrical characteristics of the sensor

#### Available communications

- Hart or Modbus RTU protocol
- RS485 communications
- One or two 4-20mA outputs
- Two (2) pulse/frequency open collector outputs
- One (1) digital open collector input



*MV210 converter with graphics display and flip-up protective cover mounted on an MS2500 flow sensor with Rilsan liner.*

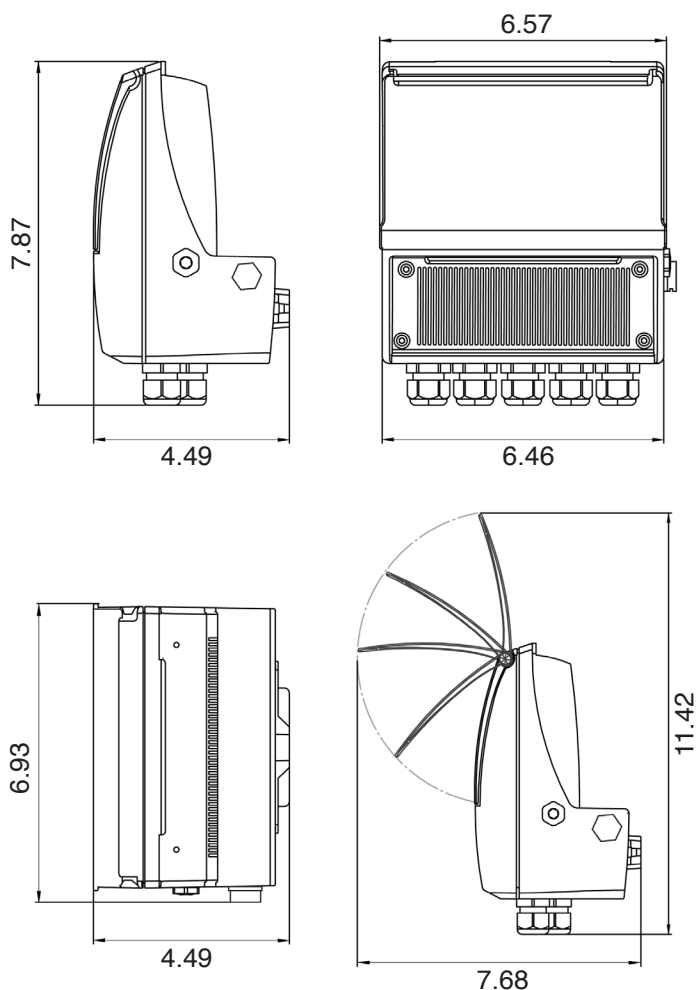
**ELECTROMAGNETIC FLOWMETER**

# FLOMOTION MV210 ENGINEERING SPECIFICATIONS

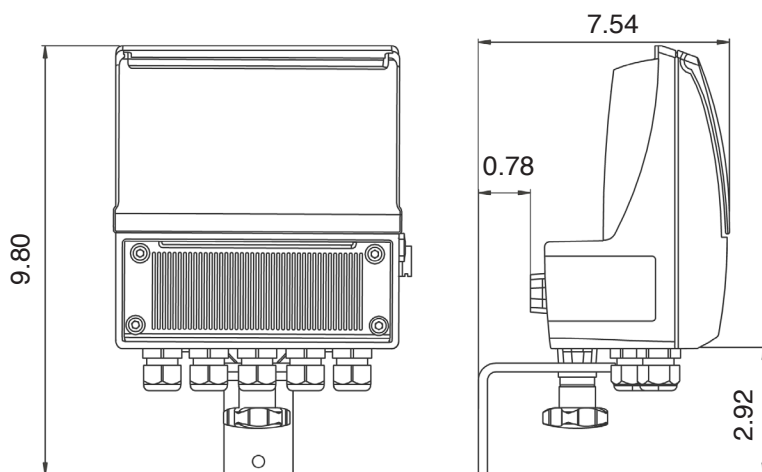
- Accuracy to  $\pm 0.2\%$  of rate
- Repeatability:  $\pm 0.2\%$
- Ambient Temperature
  - 4 to 140°F (Aluminum Housing)
  - 4 to 104°F (Nylon Housing)
- Humidity Range: 0-100%
- Environmental Rating: NEMA 6 / IP67
- Fluid Conductivity: 5  $\mu\text{S}$  (min, compact mount)
- Power Supply Options: 12-48VDC or 100-240 VAC. 44-66Hz. 1.5w sensor only, 5w all loads.
- 4-20mA output maximum load: 1000 $\Omega$ , 24VDC.
- Inputs/outputs are galvanically isolated from power supply up to 250 V
- USB cable type A/USB MINI B required for PC programming
- Values stored in memory in case of power failure
- Graphic display 128x64 pixels w/back light
- 3 external programming keys
- Digital Outputs, 1250 Hz, 100mA, 30 Vdc (max)
- MicroSD Memory Card 4 - 32 GBytes
- Cable glands - PG11
- Max cable length between sensor and converter: 330ft (1640 ft. with pre-amp, conductivity >200mS/cm)

## DIMENSIONS

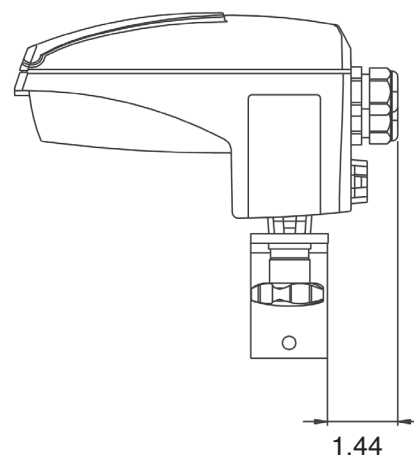
### Compact Version



### Vertical Separate Version



### Horizontal Separate Version



DIMENSIONS IN INCHES

### FLOMOTION SYSTEMS Inc.

3 North Main St.  
 Middleport, NY 14105  
 Tel: 716-691-3941  
 Fax: 716-691-1253  
 Email: [info@flomotionsystems.com](mailto:info@flomotionsystems.com)  
[www.flomotionsystems.com](http://www.flomotionsystems.com)

