

# MV145

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

The new MV145 converter is designed for remote applications in water, wastewater and other industrial and municipal markets where measurement requirements or output protocols are required.

ISOMAG 

- Accuracy:  $\pm 0.1\%$  of the reading
- Programmable through keypad on front panel or via PC connected through mini 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 6P (IP 68)

#### Standard features:

- Compatible with any Isomag® flow sensor
- Bidirectional measurement
- Encrypted Datalogger with Real-Time Clock (4GB)
- Low flow rate cut-off
- Peak cut-off
- Empty pipe detection
- Alarm limits
- Large back-lit LCD display with protective cover

#### Available accessories:

- AC, DC or Solar Power
- Choice of battery type (Lithium, Alkaline, NiMh)
- Internal rechargeable battery for direct connection to solar panel
- Built-in Diagnostics (BIV) for verifying electrical characteristics of the sensor & converter

#### Available communications

- 4-20mA output
- Digital Outputs (2 or 4)
- Digital Inputs (1 or 3)



*MV145 converter with graphics display and flip-up protective cover mounted on an MS2500 flow sensor.*

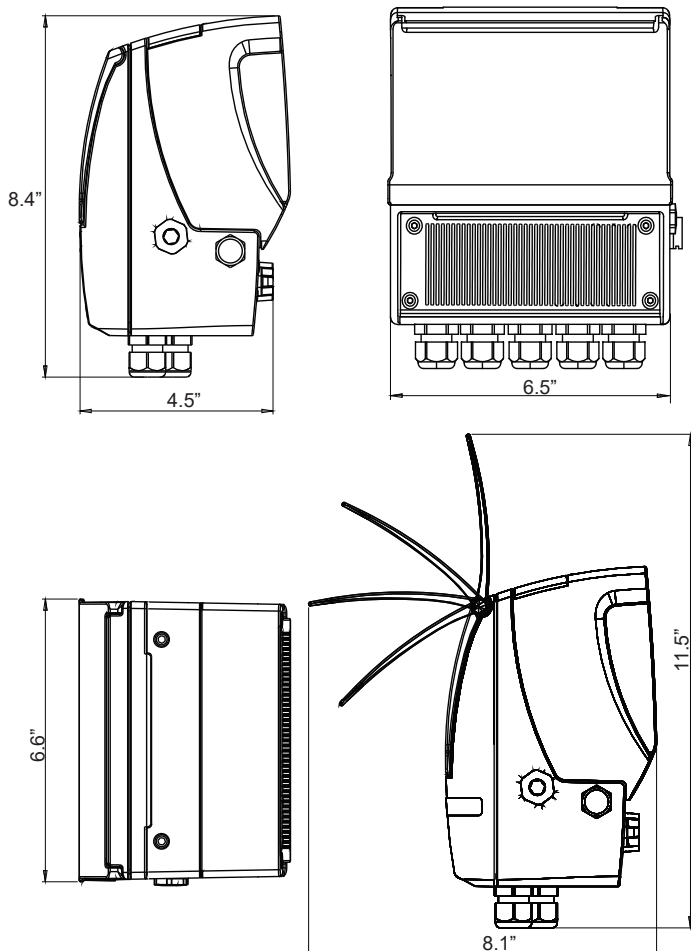
**ELECTROMAGNETIC FLOWMETER**

# FLOMOTION MV145 ENGINEERING SPECIFICATIONS

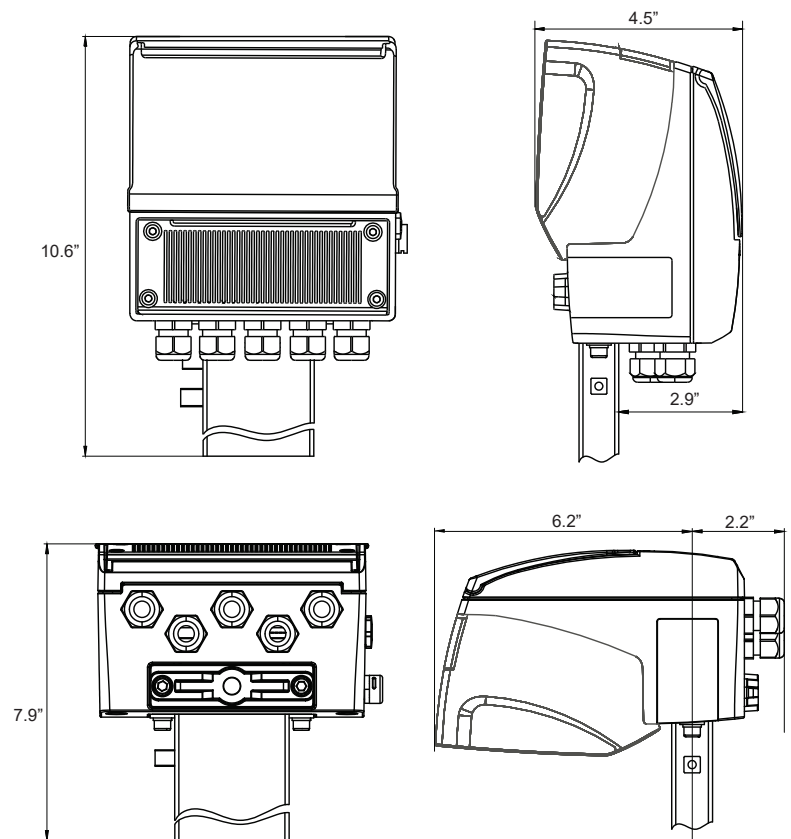
- Accuracy to  $\pm 0.1\%$  of rate
- 4-20mA or Frequency Output Accuracy  $\pm 0.2\%$
- Ambient Temperature
  - 4 to 140°F (Aluminum Housing)
  - 4 to 104°F (Nylon Housing)
- Humidity Range: 0-100%
- Environmental Rating: NEMA 6p / IP68
- Fluid Conductivity: 20  $\mu\text{S}$  (min, compact mount)
- Power Supply Options: 12-48VDC or 100-240 VAC. 44-66Hz 1.5w sensor only, 4w all loads., Battery: 40mw sensor only, 200mW all loads
- Alkaline, Lithium or NiMh battery options
- 4-20mA output maximum load: 1000 $\Omega$
- Inputs/outputs are galvanically isolated from power supply up to 500 V
- USB MINI B cable required for PC programming
- Values stored in memory in case of power failure
- Graphic display 128x64 pixels w/back light (Main power version only)
- 3 external programming keys
- Digital Outputs, Max 32 Hz, 100mA, 30 V (AC/DC)
- MicroSD Memory Card 4 - 32 GBytes
- Cable glands - PG11

## DIMENSIONS with Battery Pack

Remote Version



Compact Version



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