

High-Precision Volumetric Automotive Fuel Flow Meter (MI-FFM Series)

Positive-Displacement Rotary Piston Fuel Consumption Meter with RS485 / RS232 Modbus & Pulse Output

Product Overview

Misensor MI-FFM Volumetric Fuel Flow Meter measures real-time fuel consumption in diesel and gasoline engines with $\pm 0.5\%$ to $\pm 1.0\%$ accuracy. Featuring an integrated temperature sensor for automatic fuel density/volume temperature compensation and built-in anti-tamper diagnostics.

Key Features

- High volumetric accuracy: $\pm 0.5\%$ to $\pm 1.0\%$ across wi...
- Built-in temperature sensor for automatic fuel vol...
- Outputs: RS485 / RS232 (Modbus-RTU), CAN bus, or N...
- Detects air bubbles, reverse flow, and magnetic ta...
- Hard-anodized aluminum alloy chamber with viton se...

Typical Applications

- Commercial fleet trucks, buses & construction equi...
- Locomotives, marine vessels & river barges fuel au...
- Diesel generator set & industrial burner fuel cons...

Technical Specifications & Model Selection

Parameter	MI-FFM-100 (Standard)	MI-FFM-250 (Medium)	MI-FFM-500 (High Flow)
Flow Range (L/h)	1.0 - 100 L/h	5.0 - 250 L/h	10.0 - 500 L/h
Measuring Accuracy	$\pm 1.0\%$ (Standard) / $\pm 0.5\%$ (Calibrat..	$\pm 1.0\%$ / $\pm 0.5\%$	$\pm 1.0\%$ / $\pm 0.5\%$
Repeatability	$\leq 0.2\%$	$\leq 0.2\%$	$\leq 0.2\%$
Supply Voltage	9-36V DC	9-36V DC	9-36V DC
Output Interface	RS485 / RS232 (Modbus) + Pulse	RS485 / RS232 + Pulse	RS485 / RS232 + Pulse
Max Operating Pressure	2.0 MPa (20 bar)	2.0 MPa (20 bar)	2.0 MPa (20 bar)
Operating Temperature	-40°C to +85°C	-40°C to +85°C	-40°C to +85°C
Thread Connection	M14 x 1.5	M14 x 1.5 / G1/2"	G1/2" / G3/4"