

EWS DOPPLER FLOW METER

Environmental Sensor



Overview

The EWS Doppler Flow Meter presents a cost-effective, compact, and easy to deploy acoustic doppler velocity meter (ADVM) for measuring water flow rates, velocity and level in small-medium sized open channels, culverts and pipes. The EWS Doppler Flow Meter offers highly accurate water velocity and water level measurements which are used to calculate channel flow rate by setting the appropriate cross-sectional dimensions. The sensors ultra-low power draw and Modbus 485 output makes it pairs perfectly with the EWS Switch device range and provides an excellent solution to remote flow monitoring applications.

Features

- ✓ Robust IP68 construction designed for install in harsh environments.
- ✓ Designed for longterm deployments.
- ✓ Compact and discreet.
- ✓ Level range 0-10m.
- ✓ Velocity range 0-10m/s
- ✓ Measures velocity of circular, rectangular, trapezoidal and triangular channel sections.
- ✓ Temperature compensated measurements.
- ✓ Modbus 485 protocol.
- ✓ Highly accurate.
- ✓ Proven long-term stability
- ✓ Optional ultrasonic or hydrostatic pressure level sensor.

Benefits

- ✓ Cost-effective and reliable sensor for small-medium channel flow monitoring applications.
- ✓ Ideal for a range of channel shapes including natural open channels, culverts and storm water pipes.
- ✓ Quick and easy to install with no bulky support infrastructure required.
- ✓ No ongoing maintenance required.
- ✓ Any cable length available to match specific requirements.
- ✓ Ultra-low power consumption.
- ✓ Pairs perfectly with the EWS Switch Device range.



SPECIFICATIONS

Specifications subject to change without notice.

OUTPUT

MODBUS 485

RANGE

VELOCITY: 0-10M/S
LEVEL: 0-10M

MEASURING MEDIUM

WATER

RESOLUTION

VELOCITY 0.001M/S
LEVEL 0.001M

ACCURACY

±0.1%FS

STABILITY

0.001M/S WHEN FLOW UNDER 5M/S
0.02M/S WHEN FLOW ABOVE 5M/S

HOUSING MATERIAL

STAINLESS STEEL POM, RUBBER

POWER SUPPLY

12V DC

POWER DRAW

90mA MEASUREMENT CURRENT
25mA SLEEP CURRENT

OPERATING TEMPERATURE

-20~60°C

OPERATING PRESSURE

6BAR

PROTECTION CLASS

IP68