RFM8000 SERIES

RADAR OPEN CHANNEL FLOW METER

Full featured radar flow meter combines easy installation with high accuracy.



Constructed of corrosion resistant materials with a large backlit LCD screen and latching cover.

DESCRIPTION

The RFM8000 is a radar open-channel flow meter designed to measure flow rates in open channels. It calculates the flow rate based on the water level measured at specific weirs or flumes, using pre-defined flow conversion formulas. Therefore, accurate water level measurement is essential for precise flow calculation.

The RFM8000 not only measures water level accurately with a high-precision sensor, but also supports various flow formulas for different types of weirs and flumes, allowing flexible application depending on the user's environment. Additionally, measured flow data is stored in ample internal memory and can be conveniently downloaded via USB, making it efficient for analyzing flow trends.

RFM8000 FEATURES

- 50ft (15m) range
- Accuracy of 0.1% of Full Scale
- Easy to install sensor
- 120VAC or 24VDC models
- Large Backlit graphics display
- Integral 6 button keypad
- Five cable entry points with liquid tight cable glands.
- Easy setup and operation

APPLICATIONS

- Flumes & Weirs
- Hydraulic facilities such as water purification plants and wastewater treatment plants
- Rivers, channels, and other open waterways

RADAR OPEN CHANNEL FLOW METER

RFM8000 SERIES ENGINEERING SPECIFICATIONS

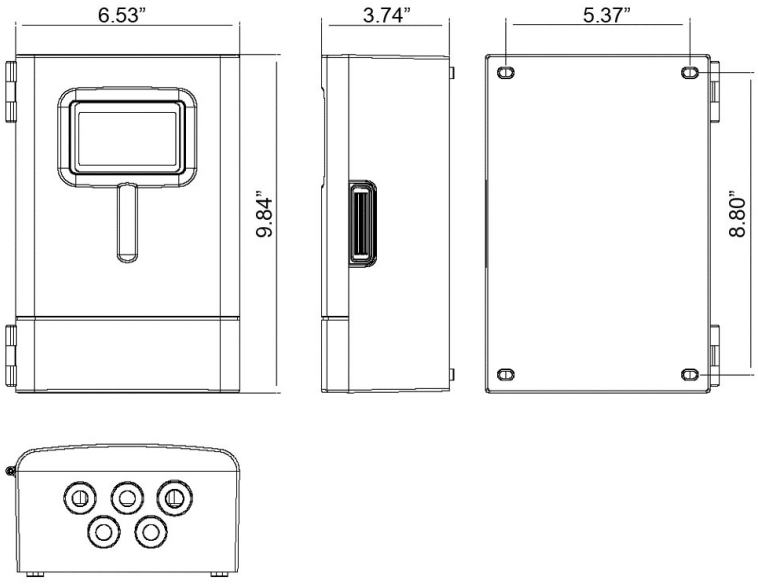
RFM CONTROLLER

Measurement Method:	Non-contact radar pulse reflection method
Accuracy:	0.1% of F.S
Resolution:	1mm
Response Speed:	0.1mm/min ~100m/min (Selectable)
Data Logging:	16 or 128 logs (up to 672 days at 1 log/hour)
Outputs:	Analog 4~20mA into max 750Ω Relay 3 relays Digital RS-232(485), Modbus
Display:	Graphic LCD
Protection:	IP65
Operating Temperature:	-4F to 140F, Max. relative humidity 80%
Material:	Polycarbonate
Dimension:	6.54(W) x 9.84(H) x 3.74(D) in.
Weight:	About 4.4 lbs
Power Supply:	100-230V AC±15%, 50/60Hz, 29VA(12W)
Fuse:	250V T1.0A
Location:	Indoor/Outdoor
Altitude:	6500ft max

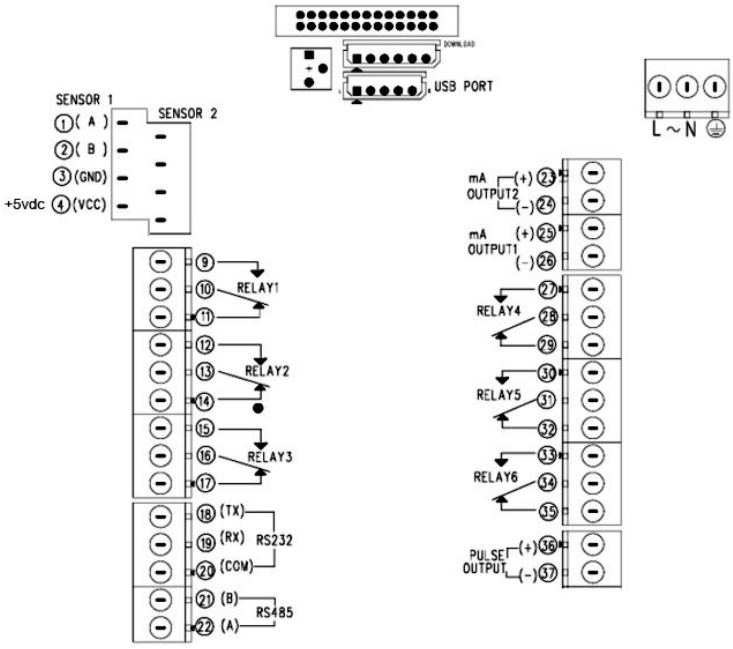
RFM SENSOR

Measuring Range:	50ft
Frequency:	60GHz
Beam Angle:	10° at -6dB
Mounting:	1-inch & 2-inch NPT
Weight:	3.3 lbs
Sensor Material:	PVDF, PP
Operating Temperature:	-22°F to 158°F Max. humidity 90%
Protection Rate:	IP68
Cable:	3-core shielded cable (AWG20), extendable up to 980 ft
Certification:	FCC, CE, UL

DIMENSIONS



WIRING



FLOMOTION SYSTEMS Inc.
3 North Main St.
Middleport, NY 14105
Tel: 716-691-3941
Email: info@flomotionsystems.com
www.flomotionsystems.com

FLOMOTION SYSTEMS

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