

AVFM-II Area-Velocity Flow Meter

Approximate shipping weight: 10lbs / 4.5 kg

Model

AVFM-II - - - - -

STANDARD FEATURES:

- QZ02L sensor – measures flow Velocity and Level
- sensor cable – 25 ft / 7.6 m submersible, shielded 3-coaxial
- enclosure - watertight, NEMA4X (IP66) polycarbonate
- displays - Flow Rate - large 4-digit LCD
- Totalizer/Menu/Status - 16-digit alphanumeric
- calibration - built-in 3-key programmer
- output – three isolated 4-20mA (1000 ohm), Flow, Level and Velocity
- 2 control relays - 5 amp, SPDT - programmable for flow proportional pulse output, flow and/or level alarm
- power input - 100-160VAC 50/60Hz
- electrical surge protection and RFI filters - AC, sensor, 4-20mA
- 1 Manual - Installation and Operation

POWER INPUT Standard 100-160VAC 50/60Hz		A
180-260VAC 50/60Hz		B
9-36VDC		C

ENCLOSURE Standard NEMA4X (IP66) fiberglass		1
CXJ8106 - Explosion proof NEMA7		2

ENCLOSURE TEMPERATURE Standard (-5° to 140°F / -20° to 60°C)		A
Heater and Thermostat (AC only, 15 watts)		B

ELECTRONICS PROTECTION Standard - no circuit board coating		1
Conformal Coating ("tropicalized") for humid atmospheres		2

SENSOR (each with 25 ft / 7.6 m cable and stainless steel mounting bracket)

QZ02L standard Sensor, submersible – measures Velocity and Level		A
QZ02L-B submersible Velocity plus separate PZ12-LP Level sensor		B
Custom		C

INTRINSIC SAFETY BARRIERS (built into electronics enclosure)

Standard, General Purpose locations, not rated Intrinsically Safe		1
3ISB Intrinsic Safety Barriers (3) for Sensor and cable installation in Class I,II,III, Div. I,II, Groups C,D,E,F,G hazardous rated locations		2

SENSOR CABLE LENGTH

Standard 25 ft. 7.6m submersible, shielded 3-coaxial		A
50 ft / 15 m submersible, shielded 3-coaxial		B
100 ft / 30 m submersible, shielded 3-coaxial		C

DATA LOGGER

None - Standard		1
Greyline Logger - 50,000 point Data Logger (built-in with RS232C, PC software)		4

ANALOG OUTPUTS

3 – 4-20mA (1000 Ohm) Standard		A
3 – 0-5VDC		B

OPTIONS AND ACCESSORIES

QTY	CODE	DESCRIPTION	
	VXC	Extra sensor cable up to 500 ft / 152 m (submersible tri-coaxial)	
	VJB	Sensor cable Junction Box, NEMA4 steel	
	PM	Panel Mount Flange assembly	
	SCR	Enclosure Sunscreen (iridite aluminum)	
	CHS	Spare set Electronics with Mounting Chassis (standard features)	
	MB-QZ	Extra submersible sensor Mounting Bracket, stainless steel	
	MB12	Extra ultrasonic level Mounting Bracket, stainless steel	
	MNL	Additional Manuals (One supplied with each unit)	
	DMS-30	Loop powered 3-1/2 digit LCD display	
	SP4	Lightning/Surge Protection in NEMA4 Steel Enclosure	
	GL2	Replacement 'Greyline Logger' Software (included with Data Logger option)	
	RS2DB9F	Replacement RS232 Cable (included with optional Data Logger)	
	485OI9TB-12V	RS232/RS485 Converter	
	NM-DB9M/25M	Null Modem Adaptor – to connect Greyline RS232 cable to a Modem	
	VSJ6	SS Pipe Mounting Band for 6"/150 mm ID pipes (fits ±0.5"/13 mm)	
	VSJ8	SS Pipe Mounting Band for 8"/200 mm ID pipes (fits ±0.5"/13 mm)	
	VSJ10	SS Pipe Mounting Band for 10"/250 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ12	SS Pipe Mounting Band for 12"/300 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ14	SS Pipe Mounting Band for 14"/350 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ15	SS Pipe Mounting Band for 15"/375 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ16	SS Pipe Mounting Band for 16"/400 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ18	SS Pipe Mounting Band for 18"/450 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ20	SS Pipe Mounting Band for 20"/500 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ24	SS Pipe Mounting Band for 24"/600 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ30	SS Pipe Mounting Band for 30"/750 mm ID pipes (adjustable ±0.5"/13 mm)	
	VSJ32-40	SS Half-Pipe Mounting Band for 32-40"/800-1000 mm ID pipes	
	VSJ42-54	SS Half-Pipe Mounting Band for 42-54"/1100-1375 mm ID pipes	
	VSJ56-72	SS Half-Pipe Mounting Band for 56-72"/1400-1800 mm ID pipes	

REPLACEMENT SENSORS

* Provide Instrument Serial number when ordering replacements

	QZ02L-UT-01-SD	Standard submersible Velocity/Level Sensor, PVC with 25 ft. / 7.6 m cable	
	QZ02L-UT-02-SD	Optional submersible Velocity/Level Sensor, PVC with 50 ft. / 15 m cable	
	QZ02L-UT-03-SD	Optional submersible Velocity/Level Sensor, PVC with 100 ft. / 30 m cable	
	QZ02L-UT-01-DP	Submersible flow Velocity Sensor, PVC with 25 ft. / 7.6 m cable	
	QZ02L-UT-02-DP	Submersible flow Velocity Sensor, PVC with 50 ft. / 15 m cable	
	QZ02L-UT-03-DP	Submersible flow Velocity Sensor, PVC with 100 ft. / 30 m cable	
	PZ12-LP	Non-contacting ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable	
	PZ12-LP-25XC	Non-contacting ultrasonic Level Sensor, PVC with 50 ft / 15 m cable	
	PZ12-LP-75XC	Non-contacting ultrasonic Level Sensor, PVC with 100 ft / 30 m cable	