

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)

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|--|--|---|
| 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)

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|---|--|---|
| 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 (each with 25 ft. / 7.6 m cable)

* Provide Instrument Serial number when ordering replacements

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|--|----------------|---|--|
| | QZ02L-UT-01-SD | Standard submersible Velocity/Level Sensor, PVC with 25 ft. / 7.6 m cable | |
| | QZ02L-UT-01-DP | Submersible flow Velocity Sensor, PVC with 25 ft. / 7.6 m cable | |
| | PZ12-LP | Non-contacting ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable | |