

Order Form

AVFM 6.1

| AVFM 6.1 Area-Velocity Flow Meter | Model | AVFM 6 | .1 | <u>-</u> - | <u>_</u> | | |
|--|----------------|----------|----|------------|--------------|--|--|
| Approximate shipping weight: 11 lbs / 5 kg | | | | | | | |
| STANDARD FEATURES: | | | | | | | |
| ■ QZ02L sensor: measures flow Velocity and Level simultaneous | usly | | | | | | |
| ■ Sensor cable: 25 ft / 7.6 m submersible, shielded 3-coaxial pa | | | | | | | |
| ■ Flow rate range: 0.1 to 20 ft/sec and reverse flow to -5 ft/sec | • | | | | | | |
| ■ Accuracy: Velocity - ± 2% of reading or ± 0.04 ft/sec (whichev | er is areater) | | | | | | |
| Repeatability & Linearity ± 0.5% | ci is gicator) | | | | | | |
| | io graatar) | | | | | | |
| Level - ± 0.25% of reading or ± 0.08" (whichever | is greater) | | | | | | |
| Repeatability & Linearity 0.1% | | | | | | | |
| ■ Enclosure: watertight, NEMA4X (IP66) polycarbonate | | | | | | | |
| Display: white, backlit matrix | | | | | | | |
| ■ Totalizer: 14 digit | | | | | | | |
| ■ Calibration: built-in 5-key programmer | | | | | | | |
| Outputs: three isolated 4-20mA/0-5V, Flow, Level and Velocit | У | | | | | | |
| 2 control relays: 5 amp, SPDT - programmable for flow | | | | | | | |
| proportional pulse output, flow and/or level alarm | | | | | | | |
| Datalogger: 128 Megabyte storage capacity (6.5 million points) | s) | | | | | | |
| ■ Power input: 100-240VAC 50/60Hz, 10 VA maximum | | | | | | | |
| ■ CE, UL/CSA/EN 61010-1 | | | | | | | |
| | | | | | | | |
| POWER INPUT | 1 | | | | | | |
| Standard – 100-240VAC 50/60Hz, 10VA Maximum | | A | | | | | |
| 9-32VDC, 10W Maximum | | В | | | | | |
| ENCLOSURE & ELECTRONICS PROTECTION | | | | | | | |
| Standard NEMA4X (IP66) polycarbonate | | 1 | | | | | |
| NEMA4X polycarbonate enclosure with conformally coated electronics | | 2 | |] | | | |
| CXJ8106 - Explosion proof NEMA7 (non-returnable & non-refundable) ¹ | | 3 | | | | | |
| ¹ Lead Time for a AVFM 6.1 with this option is 2 weeks | <u> </u> | <u>-</u> | | | | | |
| | | | | | | | |
| ENCLOSURE TEMPERATURE RATING | 1 | | | | | | |
| Standard (-5° to 140°F / -20° to 60°C) | A (. (. 1) | A | | | | | |
| Heater and Thermostat 115VAC, 15 VA additional to Power Input (25 V. | | B C | | | | | |
| Heater and Thermostat 230VAC, 15 VA additional to Power Input (25 V | A lolai) | C | | | | | |
| INTRINSIC SAFETY | | | | | | | |
| Standard – QZ02L for non-hazardous locations only | | 1 | | | | | |
| QTY 3 ISB Intrinsic Safety Barriers for sensor installation in Class 1,2,3 | Div | 2 | | | | | |
| 1,2; Groups C,D,E,F,G hazardous locations | | | | | | | |
| TDANOD/105D0 / 11 | | | | | | | |
| TRANSDUCERS (each with 25 ft / 7.6 m cable) Standard – QZ02L submersible sensor, measures level and velocity | | A1 | | | | | |
| PZ15-LP non-contacting level plus separate QZ02L-B submersible velo | oity | B1 | | | | | |
| PZ15-LP non-contacting level plus QZ02L-B-SS hi-temp velocity | City | B3 | | | | | |
| P2 13-EF Horr-contacting level plus Q202E-B-33 Hi-temp velocity | | БЗ | | | | | |
| TRANSDUCER MOUNTING HARDWARE | | | | | | | |
| Standard - Stainless steel mounting bracket (included with all Transduc | er | 1 | | | | | |
| options) | | | | | | | |
| TD 44/00/405D 04 D4 54 54/07/4 | | | | | | | |
| TRANSDUCER CABLE LENGTH | 1 | | | | | | |
| Standard – 25 ft. 7.6m, cable type matches Transducer selection | | A | | | | | |
| 50 ft / 15 m, cable type matches Transducer selection 100 ft / 30 m, cable type matches Transducer selection | | B | | | | | |
| 100 It / 50 III, cable type matches transducer selection | 1 | | | | | | |
| SERIAL COMMUNICATIONS | | | | | | | |
| Standard – None | | 1 | | | | | |
| Modbus® RTU via RS-485 or HART (field selectable) | | 2 | | | | | |
| CONTROL DELAYO | | | | | | | |
| CONTROL RELAYS Standard | | Ι Δ | | | | | |
| 2 – Standard 4 Extra Relays (6 total), rated 5 amp SPDT, fully programmable | | A B | | | | | |
| | | | | | | | |



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OPTIONS AND ACCESSORIES

| QTY | CODE | DESCRIPTION | |
|-----------------------------|----------|---|--|
| | VXC | Extra QZ02L sensor cable up to 500 ft / 152 m (submersible tri-coaxial) | |
| | DXC | Extra dual-coaxial sensor cable up to 500 ft / 152 m for optional QZ02L-B | |
| | | submersible velocity-only sensor | |
| | XC | Extra coaxial sensor cable up to 500 ft/152 m for optional PZ15-LP level sensor | |
| | JB2X | Sensor cable Junction Box, NEMA4X/IP66 polycarbonate | |
| | JB4X | Sensor cable Junction Box for separate level and velocity, NEMA4X/IP66 | |
| | PM | Enclosure Panel Mount Flange assembly | |
| | SCR | Enclosure Sunscreen (iridite aluminum) | |
| | PZS | Sensor Sunscreen (for optional non-contacting PZ15-LP level sensor) | |
| | CHS | Spare set Electronics with Mounting Chassis (standard features) | |
| | MB-QZ | Extra submersible sensor Mounting Bracket, stainless steel | |
| | MB15 | Extra ultrasonic level Mounting Bracket, stainless steel | |
| | MNL | Additional Manuals (one supplied with each instrument) | |
| | SP4 | Lightning/Surge Protection in NEMA13,12 Steel Enclosure | |
| | 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 VSJ56-72 VD6 | | SS Half-Pipe Mounting Band for 42-54"/1100-1375 mm ID pipes | |
| | | SS Half-Pipe Mounting Band for 56-72"/1400-1800 mm ID pipes | |
| | | SS Pipe Dam Band for 6"/150 mm ID pipes (fits ±0.5"/13 mm) | |
| | VD8 | SS Pipe Dam Band for 8"/200 mm ID pipes (fits ±0.5"/13 mm) | |
| | VD10 | SS Pipe Dam Band for 10"/250 mm ID pipes (adjustable ±0.5"/13 mm) | |
| | VD12 | SS Pipe Dam Band for 12"/300 mm ID pipes (adjustable ±0.5"/13 mm) | |
| | VD14 | SS Pipe Dam Band for 14"/350 mm ID pipes (adjustable ±0.5"/13 mm) | |
| | VD15 | SS Pipe Dam Band for 15"/375 mm ID pipes (adjustable ±0.5"/13 mm) | |
| | VD16 | SS Pipe Dam Band for 16"/400 mm ID pipes (adjustable ±0.5"/13 mm) | |
| | VD18 | SS Pipe Dam Band for 18"/450 mm ID pipes (adjustable ±0.5"/13 mm) | |

REPLACEMENT SENSORS

* Provide Instrument Serial number when ordering replacements

| 1 TO TIGO INIOCI GITTOTIC C | 1 To vide metrament condition than or acting replacements | | | | | |
|-----------------------------|--|--|--|--|--|--|
| QZ02L-SS | S-01-SD ¹ Standard subme | ersible Velocity/Level Sensor, 316SS with 25 ft. / 7.6 m cable | | | | |
| QZ02L-SS | QZ02L-SS-02-SD ¹ Optional submersible Velocity/Level Sensor, 316SS with 50 ft. / 15 m cable | | | | | |
| QZ02L-SS | 2L-SS-03-SD ¹ Optional submersible Velocity/Level Sensor, 316SS with 100 ft. / 30 m cable | | | | | |
| QZ02L-UT | -01-DP ¹ Submersible Velo | locity Sensor, PVC with 25 ft. / 7.6 m cable | | | | |
| QZ02L-UT | -02-DP ¹ Submersible Velo | locity Sensor, PVC with 50 ft. / 15 m cable | | | | |
| QZ02L-UT | -03-DP ¹ Submersible Velo | locity Sensor, PVC with 100 ft. / 30 m cable | | | | |
| PZ15-LP ² | Non-contacting u | ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable | | | | |
| PZ15-LP-2 | 25XC ² Non-contacting u | ultrasonic Level Sensor, PVC with 50 ft / 15 m cable | | | | |
| PZ15-LP-7 | 75XC ² Non-contacting u | ultrasonic Level Sensor, PVC with 100 ft / 30 m cable | | | | |
| PZ15 | Non-contacting u | ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable | | | | |
| PZ15-25X | C Non-contacting u | ultrasonic Level Sensor, PVC with 50 ft / 15 m cable | | | | |
| PZ15-75X | C Non-contacting u | ultrasonic Level Sensor, PVC with 100 ft / 30 m cable | | | | |

¹ Sensors include MB-QZ mounting bracket ² Sensors include MB15 mounting bracket

Effective: March 1, 2019