

AVFM 6.1 Area-Velocity Flow Meter	Model	AVFM 6.1	_ -	- -	-	- -			
Approximate shipping weight: 11 lbs / 5 kg									
STANDARD FEATURES:									
 QZ02L sensor: measures flow Velocity and Level simultaneously 	/								
Sensor cable: 25 ft / 7.6 m submersible, shielded 3-coaxial pairs									
■ 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 (whichever	is greater)								
Repeatability & Linearity ± 0.5%	,								
Level - $\pm 0.25\%$ 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 Velocity									
■ 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) 									
■ Power input: 100-240VAC 50/60Hz, 10 VA maximum									
■ CE, UL/CSA/EN 61010-1									
DOWED INDUT									
POWER INPUT Standard – 100-240VAC 50/60Hz, 10VA Maximum		Α							
9-32VDC, 10W Maximum		В	_						
		<u> </u>							
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									
ENCLOSURE TEMPERATURE RATING									
Standard (-5° to 140°F / -20° to 60°C)		Α							
Heater and Thermostat 115VAC, 15 VA additional to Power Input (25 VA	total)	В —							
Heater and Thermostat 230VAC, 15 VA additional to Power Input (25 VA		С							
INTRINSIC SAFETY									
Standard – QZ02L for non-hazardous locations only		1							
QTY 3 ISB Intrinsic Safety Barriers for sensor installation in Class 1,2,3 D	iv	2				J			
1,2; Groups C,D,E,F,G hazardous locations									
TPANSDLICERS (each with 25 ft / 7.6 m coblo)									
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-SS submersible ve	locity	B1							
PZ15-LP Non-contacting Level plus SE4 Clamp-on Velocity	.co.ty	B2					,		
PZ15 Non-contacting Level plus SE4 Clamp-on Velocity		F2							
TRANSDUCER MOUNTING HARDWARE									
Standard – Stainless steel mounting bracket (included with all Transduce	r	1							
options)								1	
TRANSPUCED CARLE LENGTH									
TRANSDUCER CABLE LENGTH Standard – 25 ft. 7.6m, cable type matches Transducer selection		Δ							
50 ft / 15 m, cable type matches Transducer selection	+	A B							
100 ft / 30 m, cable type matches Transducer selection		С							
	•								
SERIAL COMMUNICATIONS Standard – None		1							
Modbus® RTU via RS-485	+	2							l
	1								
CONTROL RELAYS	T								
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)
	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	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
	VD6	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

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QZ02L-SS-01-SD ¹	Standard submersible Velocity/Level Sensor, 316SS with 25 ft. / 7.6 m cable
QZ02L-SS-02-SD ¹	Optional submersible Velocity/Level Sensor, 316SS with 50 ft. / 15 m cable
QZ02L-SS-03-SD ¹	Optional submersible Velocity/Level Sensor, 316SS with 100 ft. / 30 m cable
QZ02L-SS-01-DP ¹	Submersible Velocity Sensor, 316SS with 25 ft. / 7.6 m cable
QZ02L-SS-02-DP ¹	Submersible Velocity Sensor, 316SS with 50 ft. / 15 m cable
QZ02L-SS-03-DP ¹	Submersible Velocity Sensor, 316SS with 100 ft. / 30 m cable
PZ15-LP ²	Non-contacting ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable
PZ15-LP-25XC ²	Non-contacting ultrasonic Level Sensor, PVC with 50 ft / 15 m cable
PZ15-LP-75XC ²	Non-contacting ultrasonic Level Sensor, PVC with 100 ft / 30 m cable
PZ15	Non-contacting ultrasonic Level Sensor, PVC with 25 ft / 7.6 m cable
PZ15-25XC	Non-contacting ultrasonic Level Sensor, PVC with 50 ft / 15 m cable
PZ15-75XC	Non-contacting ultrasonic Level Sensor, PVC with 100 ft / 30 m cable

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

Effective: January 1, 2020