

**DFM-IV Doppler Flow Meter**

Approximate shipping weight: 10lbs / 4.5 kg

**Model**

**DFM-IV -**

**STANDARD FEATURES:**

- SE3 sensor – strap-on, single head ultrasonic for 0.5" to 180" (12.5 mm to 4.5 m) ID pipes
- sensor cable – 20 ft / 6 m shielded coaxial pair
- installation - Silicone sensor compound kit
- PC3 Sensor mounting clamp for 0.6" - 32" (15 - 800 mm) OD pipes
- enclosure - watertight, NEMA4X (IP66) polycarbonate
- displays - Flow Rate - large 4-digit LCD  
- Totalizer/Menu/Status - 16-digit alphanumeric
- calibration - built-in 3-key programmer
- sensitivity - keypad adjustable
- output - isolated 4-20mA (1000 ohm)
- 3 control relays - 5 amp, SPDT - programmable for flow proportional pulse output, and/or flow alarm
- back flow rejection -external relay input
- power input - 100-160VAC 50/60Hz
- electrical surge protection and RFI filters - AC, sensor, 4-20mA
- 1 Manual - Installation and Operation

<b>POWER INPUT</b> Standard 100-160VAC 50/60Hz		A
180-260VAC 50/60Hz		B
24VDC		C
12VDC (Battery Power)		D

<b>ENCLOSURE</b> Standard NEMA4X (IP66) polycarbonate		1
CXJ8106 - Explosion proof NEMA7		2

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

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

**SENSOR** (each with 20 ft / 6 m shielded coaxial cable)

SE3 standard strap-on Sensor (for 0.5" / 12.5 mm to 180" (4.5 m) ID pipes		A
SE3H High temp, strap-on (up to 302°F / 150°C) for 0.5" / 12.5 mm ID or larger		C
ISE6 Insertion Sensor (6" / 150 mm length)		E
ISE12 Insertion Sensor (12" / 300 mm length)		F
QZ-B Submersible with 25 ft/7.6 m cable		Q

**INTRINSIC SAFETY BARRIER** (built into electronics enclosure)

Standard, General Purpose locations, not rated Intrinsically Safe		1
2ISB Intrinsic Safety Barriers (2) for SE3 Sensor installation in Class I,II,III, Div. I,II, Groups C,D,E,F,G		2

**SENSOR CABLE LENGTH**

Standard 20 ft. 6m shielded coaxial pair		A
50 ft / 15 m continuous shielded coaxial pair		B

**DATA LOGGER**

None – Standard		1
Greyline Logger – 50,000 point Data Logger (built-in with RS232C, PC software)		4
Greyline Logger – 50,000 point Data Logger (built-in with RS485, PC software)		5

**ADDITIONAL CONTROL RELAYS**

3 – Standard		A
2 Extra Relays rated 5 amp SPDT programmable for flow alarm or pulse		B

**OPTIONS AND ACCESSORIES**

QTY	CODE	DESCRIPTION	
	DXC	Extra sensor cable up to 500 ft / 152 m (RG174U shielded coaxial pair)	
	DJB	Sensor cable Junction Box, NEMA4 steel	
	PM	Panel Mount Flange assembly	
	SCR	Enclosure Sunscreen (iridite aluminum)	
	CHS	Spare set Electronics with Mounting Chassis	
	PC3	Extra Sensor Mounting Clamp for 0.6 – 32 in (15 – 800 mm) OD pipes	
	CC	Dow Corning Silicone Compound 150 g. (5.3 oz) tube	
	AP-1W	High Temperature Coupling Compound 56 g. (2 oz)	
	MNL	Additional Manuals (One supplied with each unit)	
	SP2	Lightning/Surge Protection in NEMA4 Steel Enclosure	
	485OI9TB-12V	RS232/RS485 Converter	
	NM-DB9M/25M	Null Modem Adaptor – to connect Greyline RS232 cable to a Modem	
	DMS-30	Loop powered 3-1/2 digit LCD display	

**REPLACEMENT SENSORS** (each with 20 ft. / 6 m shielded coaxial pair)

\* Provide Instrument Serial number when ordering replacements

	SE3	Standard strap-on Sensor (for 0.5" / 12.5 mm ID pipes or larger)	
	SE3H	High temperature (up to 302°F / 150°C) for 0.5" / 12.5 mm ID pipes or larger	
	ISE6	Insertion Sensor (6" 150 mm length)	
	ISE12	Insertion Sensor (12" 300 mm length)	
	QZ-B	Submersible Sensor with 25 ft/7.6 m cable	

**SPECIAL SYSTEMS**

	MUX12	12 Sensor Switch in NEMA4X (IP66) polycarbonate enclosure accepts digital control signal input to switch Sensors	
	MUX12-N7	12 Sensor Switch in NEMA7 Explosion proof enclosure	
	SE3	Standard Sensor for 0.5" / 12.5 mm ID pipes or larger (maximum 12)	
	SE3-2ISB	Sensor with Intrinsic Safety Barriers for hazardous rated locations	