

**DFM 6.1 Doppler Flow Meter**

Approximate shipping weight: 11 lbs / 6.3 kg

Model

DFM 6.1 - - - - -

**STANDARD FEATURES:**

- SE4-A sensor - Clamp-on, single head ultrasonic for 0.5" to 180" (12.7 mm to 4.5 m) ID pipes
- Sensor cable - 25 ft / 7.6 m shielded coaxial pair
- Flow rate range: ± 0.1 to 40 ft/sec (± 0.03 to 12.2 m/sec) in fluids containing bubbles or solids with a minimum size of 100 microns and a minimum concentration of 75 ppm to act as acoustic reflectors
- Accuracy: ± 2% of reading or ± 0.1 ft/sec (whichever is greater)
- Installation: PC4 Sensor mounting clamp for 0.6" - 32" (15 - 800 mm) OD pipes  
Includes silicone coupling compound
- Enclosure: watertight, NEMA4X (IP66) polyester and polycarbonate
- Display: White, backlit matrix
- Totalizer: 14 digit
- Calibration: built-in 5-key programmer
- Output: isolated 4-20mA (1000 ohm)
- 2 control relays: 5 amp, SPDT - programmable for flow proportional pulse output, and/or flow alarm
- Datalogger: 128 Megabyte storage capacity (26 million points)
- Power input: 100-240VAC 50/60Hz, 10VA maximum
- CE, UL/CSA/EN 61010-1

**POWER INPUT**

Standard – 100-240VAC 50/60Hz	A
9-32VDC, 10W Maximum	B

**ENCLOSURE & ELECTRONICS PROTECTION**

Standard – NEMA4X (IP66) polycarbonate	1
NEMA4X polycarbonate enclosure with conformally coated electronics	2
CXJ8106 – Explosion Proof NEMA7 (non-returnable & non-refundable) <sup>1</sup>	3

<sup>1</sup>Lead time for a DFM 6.1 with this option is 2 weeks

**ENCLOSURE TEMPERATURE RATING**

Standard – (-5° to 140°F / -20° to 60°C)	A
Heater and Thermostat, 115VAC, 15 VA additional to Power Input (25 VA total)	B
Heater and Thermostat, 230VAC, 15 VA additional to Power Input (25 VA total)	C

**INTRINSIC SAFETY**

Standard – SE4 Transducer, Non-Incendive for Class I Div 2, Groups A,B,C,D	1
QTY 2 ISB Intrinsic Safety Barriers for transducer installation in Class I, Div 1, Groups C,D; Class II, Groups E,F,G; Class III; Encl. Type 4	2

**TRANSDUCERS**

Standard – SE4-A Clamp-on Sensor (for 0.5" / 12.5 mm to 180" (4.5 m) ID pipes	A
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**TRANSDUCER MOUNTING HARDWARE**

Standard – PC4; Includes stainless bracket, mounting clamps, and coupling tape for permanent installation	1
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**TRANSDUCER CABLE LENGTH**

Standard – 25 ft. (7.6 m) shielded coaxial pair	A
50 ft / 15 m continuous shielded coaxial pair	B
100 ft / 30 m continuous shielded coaxial pair	C

**SERIAL COMMUNICATIONS**

Standard – None	1
Modbus® RTU via RS-485 or HART (field selectable)	2

**CONTROL RELAYS**

Standard – 2 relays, rated 5 amp SPDT, programmable	A
4 Extra Relays (6 total), rated 5 amp SPDT, programmable	B

**OPTIONS AND ACCESSORIES**

QTY	CODE	DESCRIPTION	
	DXC	Extra sensor cable up to 500 ft / 152 m (RG174U shielded coaxial pair)	
	JB2X	Sensor cable Junction Box, NEMA4X (IP66) polycarbonate	
	PM	Panel Mount Flange assembly	
	SCR	Enclosure Sunscreen (iridite aluminum)	
	PC4	Extra Sensor Mounting Kit with coupling tape and SS clamps for pipes up to 32" (80 cm)	
	PC4S	PC4S Doppler Sensor Mounting Kit with Expansion Springs	
	CT	Coupling Tape – lower maintenance for permanent installations	
	CC-SL30	Coupling Compound – Super Lube® Synthetic Grease 3.0 oz tube	
	CC-SL30HT	Coupling Compound for Fluid Temp. > 120°C (250°F) – Super Lube® Dielectric Grease 3.0 oz tube	
	SP2	Lightning/Surge Protection in NEMA4 Steel Enclosure	

**REPLACEMENT SENSORS**

\* Provide Instrument Serial number when ordering replacements

	SE4-A	Standard clamp-on Sensor with 25 ft / 7.6 m shielded coaxial pair	
	SE4-A-25DXC	Clamp-on Sensor with 50 ft / 15 m length cable	
	SE4-A-75DXC	Clamp-on Sensor with 100 ft / 30 m length cable	