

DFM 6.1 Doppler Flow Meter

Approximate shipping weight: 11 lbs / 5 kg

Model

Please configure model on next page

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: $\pm 2\%$ 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



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POWER INPUT

Standard – 100-240VAC 50/60Hz, 10VA Maximum		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 (CSA Class I, Div 1) ¹		3
CXJ8106 – Explosion proof NEMA7 (ATEX/IECEX Ex db IIB+H2 Gb) ¹		5

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-A, Non-Incendive for Class I Div 2, Groups A,B,C,D		1
QTY 2 ISB Intrinsic Safety Barriers for sensor installation in Class I, Div 1, Groups C,D; Class II, Groups E,F,G; Class III; Encl. Type 4		2
QTY 2 ISB Intrinsic Safety Barriers for sensor installation in ATEX/IECEX Zone 0, Ex ia IIB T4 Ga		3

TRANSDUCERS (each with 25ft / 7.6m cable)

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

Standard – PC4; Includes stainless bracket, mounting clamps, and coupling compound		1
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TRANSDUCER CABLE LENGTH

Standard – 25 ft. 7.6m		A
50 ft / 15 m		B
100 ft / 30 m		C

SERIAL COMMUNICATIONS

Standard – None		1
Modbus® RTU via RS-485		2

CONTROL RELAYS

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

¹ Lead Time for a DFM 6.1 with this option is 2 weeks. Non-returnable & Non-refundable

OPTIONS AND ACCESSORIES

Code	Description	
DXC	Extra sensor cable up to 500 ft / 152 m (RG174U shielded coaxial pair, price per foot)	
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, price per foot	
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 - Please provide instrument serial number when ordering replacements

Code	Description	
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	