![Greyline Precision Flow Measurement — An ONICON Brand]

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)[1]	3

[1]*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 1 Div 2, Groups A,B,C,D	1
QTY 2 ISB Intrinsic Safety Barriers for transducer installation in Class 1 Div 1, Groups C,D; Class 2, Groups E,F,G; Class 3; Type 4	2

TRANSDUCERS

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

TRANSDUCER MOUNTING HARDWARE

Standard – PC4; Includes stainless bracket, mounting clamps, and silicone coupling compound	1

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 Couplant and SS clamps for pipes up to 32" (80 cm)	
	PC4S	PC4S Doppler Sensor Mounting Kit with Expansion Springs	
	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	
	MNL	Additional Manuals (One supplied with each unit)	
	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	