**DFM 6.1 Doppler Flow Meter**

*Approximate shipping weight: 11 lbs / 6.3 kg*

**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
- 9-32VDC, 10W Maximum

**ENCLOSURE & ELECTRONICS PROTECTION**
- Standard – NEMA4X (IP66) polycarbonate
- NEMA4X polycarbonate enclosure with conformally coated electronics
- CXJ8106 – Explosion Proof NEMA7 (non-returnable & non-refundable)

*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)
- Heater and Thermostat, 115VAC, 15 VA additional to Power Input (25 VA total)
- Heater and Thermostat, 230VAC, 15 VA additional to Power Input (25 VA total)

**INTRINSIC SAFETY**
- Standard – SE4 Transducer, Non-Incendive for Class 1 Div 2, Groups A,B,C,D
- 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

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

**TRANSDUCER MOUNTING HARDWARE**
- Standard – PC4; Includes stainless bracket, mounting clamps, and silicone coupling compound

**TRANSDUCER CABLE LENGTH**
- Standard – 25 ft. (7.6 m) shielded coaxial pair
- 50 ft / 15 m continuous shielded coaxial pair
- 100 ft / 30 m continuous shielded coaxial pair

**SERIAL COMMUNICATIONS**
- Standard – None
- Modbus® RTU via RS-485 or HART (field selectable)

**CONTROL RELAYS**
- Standard – 2 relays, rated 5 amp SPDT, programmable
- 4 Extra Relays (6 total), rated 5 amp SPDT, programmable
<table>
<thead>
<tr>
<th>QTY</th>
<th>CODE</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>DXC</td>
<td>Extra sensor cable up to 500 ft / 152 m (RG174U shielded coaxial pair)</td>
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<tr>
<td>JB2X</td>
<td>Sensor cable Junction Box, NEMA4X (IP66) polycarbonate</td>
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<tr>
<td>PM</td>
<td>Panel Mount Flange assembly</td>
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<tr>
<td>SCR</td>
<td>Enclosure Sunscreen (iridite aluminum)</td>
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<tr>
<td>CHS</td>
<td>Spare set Electronics with Mounting Chassis</td>
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<tr>
<td>PC4</td>
<td>Extra Sensor Mounting Kit with Couplant and SS clamps for pipes up to 32” (80 cm)</td>
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<tr>
<td>PC4S</td>
<td>PC4S Doppler Sensor Mounting Kit with Expansion Springs</td>
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<tr>
<td>CC-SL30</td>
<td>Coupling Compound – Super Lube® Synthetic Grease 3.0 oz tube</td>
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<tr>
<td>CC-SL30HT</td>
<td>Coupling Compound for Fluid Temp. &gt; 120°C (250°F) – Super Lube® Dielectric Grease 3.0 oz tube</td>
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<tr>
<td>MNL</td>
<td>Additional Manuals (One supplied with each unit)</td>
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<tr>
<td>SP2</td>
<td>Lightning/Surge Protection in NEMA4 Steel Enclosure</td>
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**REPLACEMENT SENSORS**

* Provide Instrument Serial number when ordering replacements

<table>
<thead>
<tr>
<th>CODE</th>
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<tbody>
<tr>
<td>SE4-A</td>
<td>Standard clamp-on Sensor with 25 ft / 7.6 m shielded coaxial pair</td>
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<tr>
<td>SE4-A-25DXC</td>
<td>Clamp-on Sensor with 50 ft / 15 m length cable</td>
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<tr>
<td>SE4-A-75DXC</td>
<td>Clamp-on Sensor with 100 ft / 30 m length cable</td>
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