FMS18 – FMS18-45
Fluorescence Dissolved Oxygen Sensors

Features

• No Electrolyte Requirement
• No Flow Requirement
• No Oxygen Consumption
• Plug-and-Play with SMART Calibration
• Bubble Deflecting 45° Sensing Surface
• Retains Calibration History
• Retains User Metadata for Tracking
The OptaProbe™ Model W is a SMART optical dissolved oxygen (DO) sensor for use in water and wastewater applications. Combines high reliability with low maintenance. Standard 12 x 120 mm design.

Technical Specifications FMS18 – FMS18-45

Operating Range:
- 0 – 300% SAT (0 – 30 PPM)
- 5°– 50° C
- 0 – 5 bar

Accuracy:
- Within 1% full range (%SAT or PPM)

Response Time
- T98 < 15 seconds @37° C; N2 to AIR
- T98 < 15 seconds @37°C; AIR to N2

Termination
- Fixed cable standard 10M length

Digital Output
- Process Variable: 0 – 300 % SAT (0 – 30 PPM)
- Temperature Compensated
- Phase Angle: Range 10°–100° PA
- Operational Temp: 5°– 50° C
- Amplitude (diagnostic for Sensing Surface Health)

Wetted Materials:
- Sensor Body and Cap: Anodized Aluminium
- O-rings: EPDM
- Sensing Surface: PES and Silicone Rubber

Power Supply
- 5.0 VDC supplied by Power Module or Transmitter

Design Features:
- Easily Replaced Optical Cap
- Bubble Deflecting 45° Sensing Surface
- PG13.5 Threaded Sensor Cap
- Rugged PCV Coated Cable w/ Ferrules
- Standard 12x120mm design

Order Codes

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>138/400</td>
<td>FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. PG13.5 Thread, fitted with 10 Metres of cable and tag ends.</td>
</tr>
<tr>
<td>138/401</td>
<td>FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a 45° angled sensing surface. PG13.5 Thread, fitted with 10 Metres of cable and tag ends.</td>
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</table>

SPARE PARTS

<table>
<thead>
<tr>
<th>Part No</th>
<th>Description</th>
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<tbody>
<tr>
<td>138/410</td>
<td>E-3671-01 Single cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. Includes replacement O ring kit.</td>
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<tr>
<td>138/411</td>
<td>E-3671-04 4 Piece cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. Includes replacement O ring kit.</td>
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<tr>
<td>138/415</td>
<td>E-3672-01 Single cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a 45° angled sensing surface. Includes replacement O ring kit.</td>
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<tr>
<td>138/416</td>
<td>E-3672-04 4 Piece cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a 45° angled sensing surface. Includes Replacement O ring kit.</td>
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</table>

Note: Temperature, pressure and solution composition will influence the life expectancy of the measurement sensor.