

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

Part No	Description
138/400	FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. PG13.5 Thread, fitted with 10 Metres of cable and tag ends.
138/401	FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a 45° angled sensing surface. PG13.5 Thread, fitted with 10 Metres of cable and tag ends.
SPARE PARTS	
138/410	E-3671-01 Single cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. Includes replacement O ring kit.
138/411	E-3671-04 4 Piece cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a flat sensing surface. Includes replacement O ring kit.
138/415	E-3672-01 Single cartridge kit for FMS18 Fluorescence (Optical) Dissolved Oxygen sensor with a 45° angled sensing surface. Includes replacement O ring kit.
138/416	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.

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



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