

# Dissolved Oxygen Analyser FMSC-DO (E)

## Optical DO System

Insufficient attention to sewage or industrial wastewater treatment results in pollution and related problems. However with an increase in awareness of the people living in the vicinity of polluting industries and government, the authorities are more vigilant about the quality of water being discharged by industries. Since the last decade, stringent quality standards are being applied to plant effluents, both by regulatory authorities and by the plant managements who are concerned about the environment. This, in turn, has resulted in a focus on the biological activity in a treatment plant, particularly the aeration basin. Dissolved Oxygen (DO) is the most critical parameter for the aeration system or the activated sludge process.

The Forbes Marshall DO analyser Model FMSC-DO (E) is designed for demanding applications of DO and temperature measurement in water and waste water applications. Its user-friendly software and minimum push button operations make it easy to operate for the user. It has a large LCD to view results from a distance.



### Features

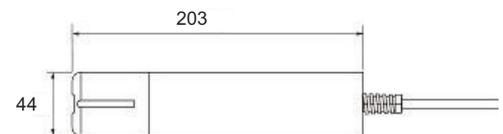
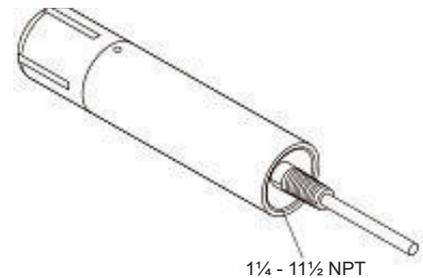
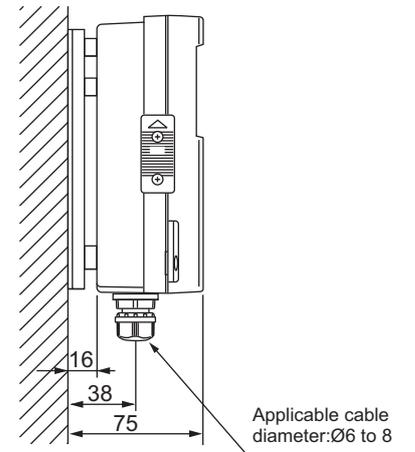
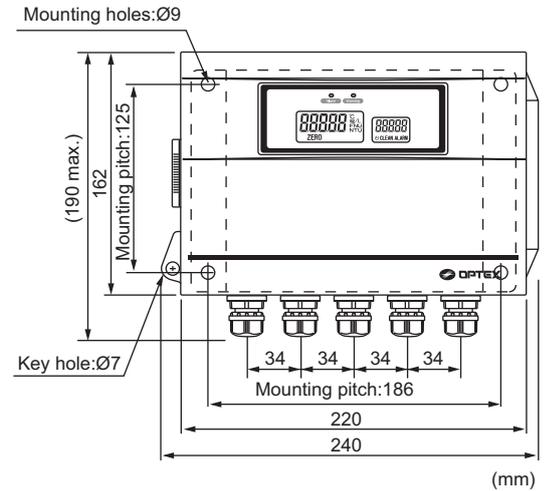
- No membrane, no electrolyte or chemicals
- Optical measurement
- No consumables required for operation
- Rugged sensor design, inert ABS construction
- Suitable for demanding wastewater applications
- 1 or 2 (zero and saturation) point calibration
- Automatic wash system facility for periodic cleaning
- Field mounted system
- Long life components reducing cost of ownership

### Applications

- Water and waste water
- Sewage water (municipal waste treatment)
- Effluent treatment plants (ETP and CETPs)
- River and surface water environmental studies
- Final effluent compliance monitoring
- Integrated Pollution Prevention and Control (IPPC) measurement and waste minimisation

Specifications		
Model	Sensor Transmitter	DOS-20 (outdoor type) FMSC-DO(E)
Measuring parameter	Dissolved oxygen (mg/L) Temperature (°C), Dissolved oxygen Saturation rate (%), Oxygen partial pressure (kPa)	
Measuring range/ Display resolution	[ Dissolved oxygen ] 0.00 ~ 20.00mg/L (0.01mg/L) [ Dissolved oxygen saturation rate ] 0.0 ~ 200.0% (0.1%) [ Temperature ] 0.0 ~ 50.0°C (0.1°C) [ Oxygen partial pressure ] 0.0 ~ 150.0kPa (0.1KPa)	
Measurement accuracy	±0.1mg/L (0~8mg/L), ±0.2mg/L (8~20mg/L)	
Response time	90%<45 seconds, 95%<60 seconds (Water temperature: 25°C)	
Sensor cap Replacement term	About 3 years*	
Power supply	AC100-240V 15VA max.	
Signal output	4-20mA (load resistance 500 max.) x 2	
Relay output	non-voltage C-contact capacity 240VAC, 2A resistance load	
Cleaning Output	Connect to a cleaning device (non-voltage A-contact capacity 240VAC, 2A resistance load)	
Calibration	1-point, 2-point, concentration option, initialized calibration	
Correction	[Salinity concentration correction] 0~42PSU [Altitude correction] 0~5000m	
Measuring water temperature	0 to 50°C	
Ambient temperature	Transmitter : -20 to 50°C Humidity 95%Rh or less (Avoid direct sunlight)	
Material	Sensor	ABS
	Transmitter	Polycarbonate
Dimensions	Sensor	F44 x 203mm
	Transmitter	162(H)x240(W)x75(D)mm
Weight	Sensor	850g (including 10m cable)
	Transmitter	Approx. 1.6kg (including the mounting bracket)
Degree of protection	Sensor	Underwater type, maximum depth of 20m (IP68)
	Transmitter	Jetproof type (IP65)
Cable length	10m	
Option(s)	Mounting attachment (DA-1), Replacement sensor cap (DOS-CP)	
*Recommended. Conditions apply		

## Dimensions



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 Forbes Solar  
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 Forbes Marshall Steam Systems

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