



Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

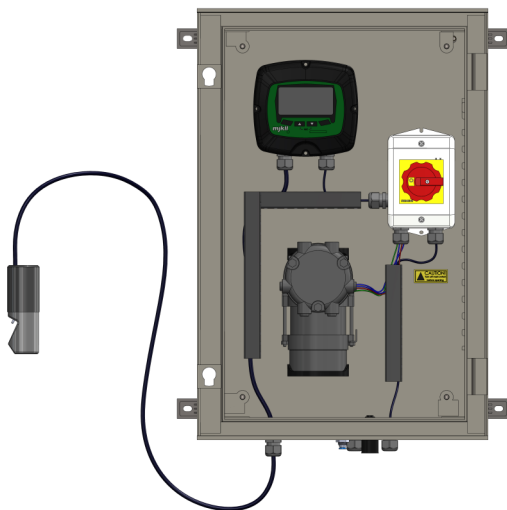
## Optical Dissolved Oxygen Measurement

InsitelG 1000 / 2000 / OptoDOSys



Alternative  
Transmitter &  
Housing Options

Transmitter & Cleaning compressor  
can be installed in a compact  
weatherproof housing

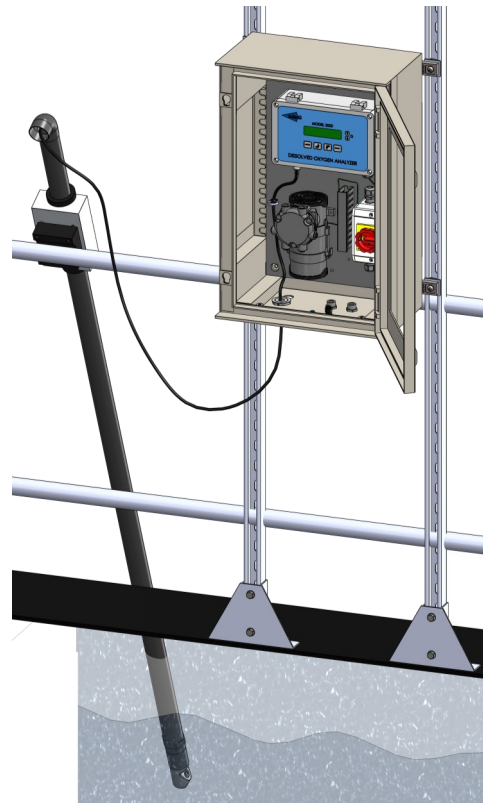


5 Year Warranty



### Features:

- No membranes to replace
- 5 yr sensor warranty
- Air blast cleaning option
- Accurate in low DO environments
- Robust, not subject to photo bleaching
- Flexible install options within different size weatherproof housings



Flexible install options for ease of deployment

[info@envitech.co.uk](mailto:info@envitech.co.uk)

Tel: +44 2920 364252

[www.envitech.co.uk](http://www.envitech.co.uk)



# Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

System Specification	1 (Insite 1000/2000)	2 (MJK)
Operation principle	Based on an optical sensor utilising the measurement of fluorescence and quenching reactions of a Ruthenium complex immobilised in a sol- gel matrix	Based on six optical path detection of 860nm light and using neural net software for optimal interpretation over the whole range
Range	0-25 mg/l D.O. 0-60 °C	Suspended solids (TSS) up to 400 g/l SIO2 Turbidity 0001P 9999 NTU FNU or FTU & EBC
Resolution	0.01 mg/l (for 0-3.99 mg/l) 0.1mg/l (for 4-20 mg/l) & 0.1 °C for 0-50 °C	1 mg/l (for <1000 mg/l) 10mg/l (for 1000-9999mg/l) & 100 for > 10000mg/l
Repeatability	0.01 mg/l	<4% of reading
Accuracy	1% of reading or 0.02 mg/l whichever is >	<5% of measuring range
Sensor drift	<1% per year	
Response time	95% < 1 min	1sec min, may be buffered
Temperature Consumption	0-60 °C	2 configurable relays - NC, max 0.2a / 50v

Transmitter Specification	1 (Insite 1000/2000)	2 (MJK)
Dimensions (h x w x d)	312 X 225 X150 mm	162 x 150 x 89mm
Weight	4kg	1 kg
Materials	Fibreglass	Polycarbonate, glass reinforced
Environmental	-20 to 55 °C, 0-100% Humidity	-20 to +60 °C
Weather Protection	NEMA 4X	IP67
Display	Compliant	Compliant
Analogue:	Two line back lit LCD with extended temp range and UV resistant	5 Line LCD(64-128 pixel) soft keys +graphics
Digital:	2 off 0/4-20 mA optically isolated user configurable	1 off 0/4-20 mA galvanic isolated (max 800)
Data storage:	2 off formC 10/6 Amps load @ 125/250 VAC 2 off formA 10/6 Amps load @ 125/250 VAC 1 Dedicated to jet clean 3 user programmed	4 x user config relays (6A@ 250v ac)
Fieldbus Outputs	Rs232 serial / Rs 485 modbus	Rs232 / Rs 485
Supply voltage:	115 VAC -60Hz, 230VAC -50Hz	
Load:	30 Watts with air clean: 750 watts surge 440 watts running	Maximum 2 ( more optional)

Transmitter Specification	1 (Insite 1000/2000)	2 (MJK)
Dimensions (h x w x d)	38mm dia (nominal) support pole 3m nominal	40mm dia 240mm long 1" ISO RG thread
Weight	1 Kg excluding support pole + bracket	<1 kg excluding support pole +bracket
Materials	Epoxy silicone Polyurethane	Full gloss steel coated with chrome-dioxide
Medium Temp	0-60°C	0-60°C, 0-50°C with wiper
Medium Pressure	100PSI max	Max 10 bar
Quality	Must be free of abrasives	
Max dist. To controller		300m

[info@envitech.co.uk](mailto:info@envitech.co.uk)

Tel: +44 2920 364252

[www.envitech.co.uk](http://www.envitech.co.uk)