



Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

InsiteIG MPA48 Suspended Solids

Insite IG MPA48 is a multi-channel analyser utilising a unique system that combines advanced electronics with solid-state optical sensors. The analyser will accept, and automatically configure itself for, any combination of 4 to 8 sensors, (DO, SS, pH, and ORP).

The system allows for flexible and economical process monitoring and control.

The DO sensor does not need membranes, fill solutions, nor routine calibration and maintenance. The SS sensor is based on near infrared technology, which eliminates inaccuracies caused by changes in the process colour or changes in particle size. The pH and ORP electrodes are both flat glass, with double reference junctions, and temperature compensated. Both probes feature quick disconnect cartridge design for easy maintenance and fast changes.

Applications:

- Activated sludge monitoring & control
- Final effluent monitoring
- Process monitoring
- River monitoring stations



Multi channel fixed site transmitter & fluorescent DO, SS, pH & ORP sensors

Features:

- Accommodates up to 8 sensors in any combination
- Advanced microprocessor design
- Automatic optional Air cleaning
- No replacement parts required for DO or SS
- 5 yr Warranty on DO sensors
- Backlit LCD display with UV protection
- Analogue, RS232 serial and RS485
- Modbus outputs + optional external profibus
- Set pt, alarm and cleaning relays
- pH & ORP quick release cartridges

Benefits:

- Low cost of ownership
- No frequent calibrations needed
- Minimal maintenance
- Accurate in low DO environments
- Automatic error detection
- No regular sensor refurbishment needed

info@envitech.co.uk

Tel: +44 2920 364252

www.envitech.co.uk



Innovation in Environmental & Process Technology

We **Understand** Water & Waste Water Monitoring

System Specification

Range	DO 0-25 mg/l D.O., 0-60 °C SS 0-30,000mg/l pH 0-14 pH ORP +/- 2000mV
Resolution	DO/T 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 SS 1mg/l (<1000mg/l), 10mg/l (1000 – 9999mg/l) 100mg/l (>10,000mg/l)
Repeatability	DO 0.01 mg/l SS +/- 1%
Accuracy	DO 1% of reading or 0.05 mg/l DO whichever is greater SS 3% of reading
Sensor Drift	DO/SS <1% per year
Response time	95% in < 60 secs
Temperature range	DO/SS 0-60 °C pH/ORP 10 – 100 °C
Wetted materials:	Epoxy, polyurethane, glass, & PVC
Max op pressure:	100psi
Sensor cable length:	11.5m standard (up to 600m)

Transmitter Specification

Construction	Dimensions (h x w x d)	312 x 225 x 150 mm (approx.)
	Weight	4.6 kg
	Materials	Firbreglass
	Protection class	NEMA 4X
Software	Ambient conditions	-20 to 70 °C, 0-100% Humidity
Outputs	Data Interface	RS232 Serial and Opto isolated RS-485 Modbus
	Display	LCD graphic display with UV protection. Contrast adjustment via keypad. On demand backlighting
	Analogue	Up to 8 opto isolated 0/4-20 mA, user configurable
Power Requirements	Supply voltage	Up to 8 10Amp relay setpoints 1 alarm relay
		115 VAC-60Hz, 230VAC-50Hz 45 Watts with air clean: 800 watts surge

Optional

--	--	--

info@envitech.co.uk

Tel: +44 2920 364252

www.envitech.co.uk