

SENSORS

oceanographic parameters. These sensors of high quality and performance can be installed in on-shore stations or buoys, depending on the model.

Likewise, MSM has towers and buoys available, especially conceived to hold these measurement equipment.

These sensors use the latest technology and, connected to the METLOGGER 2000 Unit particularly designed to process and transmit data, provide the specific information in an easy and efficient way.

The main types available are introduced below as follows:

TYPES

METEOROLOGIC		C
Wind Speed	Vane or bi-axial ultrasonic type.	
	Wind speed range: 0-100 m/s (0-360 km/h).	
	Wind direction: 0-360 °.	
Air Temperature and relative Humidity	Combined sensor of air temperature and relative humidity.	
	Temperature range: -40° to +60° C or -30° to +70°C. Other ranges available.	
	Humidity: 0-100%.	
	Temperature accuracy: ±0.1°C.	
	Relative humidity: ±0.8%.	1
Solar Radiation	Thermoelectric pyranometer.	
	Class 2, according to ISO-9060.	
	Nominal sensitivity: 15 μV/ (W/m²).	
	Range: 0 to 2,000 W/m ² .	
	Response temperature: ±3% (-10° to +40°C).	
Barometric Pressure	Range: 500 -1,100 hPa.	
	Accuracy: ±0.2 hPa to 25°C.	
Rain Gauge	Catchment area: 200 cm ² .	
	Resolution/sensitivity (per tip): 0.1 mm.	
Fog	Visibility sensor range: 30 m to 16 km. Other ranges as an option.	0.6
	Power: 12V (220V optional).	
	Analogical output: 0-5V (0-10V optional). RS-232 optional.	

OCEANOGRAPHIC

	Mounting on buoy or fixed platform.	
Wave Sensor	Parameters: Height, direction displacement (3 axis).	
Wave Selisor	Range: -20 m to +20 m.	
	Resolution: 1 cm.	
	Mounting on buoy or fixed platform.	
	Marine current measurement with Doppler acoustic technology (3 beams).	
Current Profiler	Maximum profile range: 60-90 m, 30-40 m, 12-20 m, 4-10 m.	
	Accuracy: ±1% of measured value ±0.5 cm/s.	
	Maximum sampling rate: 1Hz.	
	Mounting on buoy or fixed platform.	
Water Temperature	Range: -10° to +50°C.	
	Accuracy: ±0.1°C.	







SENSORS













Temperature submersible	curacy: ±0.2 °C.	
	earity: 0.2 % integrated microprocessor compensation.	
	nge: 0-14 pH.	
PH submersible Probe Out	put: 4-20 mA.	
	nge: ±500 mV; ±1,000 mV or 0-1,000 mV.	
Potential (ORP) submersible Probe Out	put: 4-20 mA.	
Dissolved Oxygen Rar submersible Probe	nge: 0-200% saturation or 0-20 ppm.	
Water Turbidity time	nge: 0-50; 0-100; 0-500; 0-1,000 or 0-2,000 NTU (to be selected at e of purchase order).	
submersible Probe Out	put: 4-20 mA.	
	Range: 0-14 pH.	
Simultaneous 0-40	nductivity Range: 0-1,000; 0-2,000; 0-5,000; 0-10,000; 0-20,000; 0,000; 0-60,000 or 0-70,000 $\mu S/cm$ (to be selected at time of chase order).	
parameters: Conductivity,	solved Oxygen range: 0-200 % saturation or 0-20 ppm.	
0-40 Temperature, Conductivity	nductivity range: 0-1,000; 0-2,000; 0-5,000; 0-10,000; 0-20,000; 0,000; 0-60,000 or 0-70,000 $\mu S/cm$ (to be selected at time of chase order).	
	el range: 0-1; 0-2,5; 0-5; 0-10; 0-20; 0-40; 0-75; 0-100; 0-200 metres er column.	
Ten	nperature range: 0-50 °C.	
Submersible probe, 0-40	nductivity Range: 0-1,000; 0-2,000; 0-5,000; 0-10,000; 0-20,000; 0,000; 0-60,000 or 0-70,000 μ S/cm (to be selected at time of chase order).	
	solved Oxygen range: 0-200 % saturation or 0-20 ppm.	
	e level range: 0-1; 0-2.5; 0-5; 0-10; 0-20; 0-40; 0-75; 0-100; 0-200 tres water column.	
	nperature range: 0-50°C.	
рН	range: 0-14 pH.	
Conductivity, Temperature, 0-40	nductivity Range: 0-1,000; 0-2,000; 0-5,000; 0-10,000; 0-20,000; 0,000; 0-60,000 or 0-70,000 μ S/cm (to be selected at time of chase order).	
	e level range: 0-1; 0-2.5; 0-5; 0-10; 0-20; 0-40; 0-75; 0-100; 0-200 tres water column.	
Ten	nperature range: 0-50°C.	
Det	ection sensitivity: ±3 microns thickness.	
	asurement distance: from 0.2 to 5 metres.	
fluorescent Detector on water surface. Out	Output signal: 4-20 mA (yes-no).	
Pov	ver: 220V / 50Hz (12-36 V c.c. optional).	



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