

The AGEOTEC logo is positioned in the top left corner within a black rectangular box. The background features a technical drawing of a probe with a circular frame and a separate probe component to its right. The lower half of the page is dominated by a large, intricate blue wireframe plot that resembles a complex data visualization or a topographical map.

AGEOTEC

Type

multiparametric probes

Model

im71/im81

AGEOTEC

executive & sales:
via prati 1/1 - loc. ponte ronca
40069 zola predosa (bo) italy
phone +39 051 6133382
fax +39 051 6136159
cf/p.i. 02428191205

underwater
technologies division:
via dei baietti, 34
22077 olgiate comasco (co) italy
phone +39 031 990529
fax +39 031 943564

oceanographic
technologies division:
via volturmo, 22R
16129 genova (ge) italy
phone +39 010 588194
fax +39 010 588244

www.ageotec.com



The Ageotec oceanographic multiparametric probe IM has a flexible configuration adaptable to the specific application. The commonly used marine sensors are:

- > Temperature (T)
- > Depth (P)
- > Conductivity (C)
- > Dissolved Oxygen (O%)
- > pH (pH)
- > Redox (Rx)
- > Chlorophyll "a" (Cl)
- > Turbidity (To)

From these values the following parameters are computed:

- > Salinity (S)
- > Relative Density (St)
- > Sound Velocity (Sv)
- > Dissolved Oxygen in mg/l (O2)

A Bottom sensor is suggested whenever measuring in the proximity of the seafloor.

Available as external sensors are also:

- > Current Speed and Direction and (Cur)
- > P.A.R. (Photosynthetically Active Radiation)
- > Quantameter (Qu)
- > Others

The probe is used in two different ways:

- > Vertical or horizontal profile (position related)
- > In situ measurement (time related)

In both cases the probe may be either self-recording, with internal memory, or direct reading.

Model im71/im81

The RS232 transmission is used with cable lengths of up to approximately 100 m. In these cases the cable is directly connected to a PC. For longer distances the FSK protocol is adopted and a special interface is needed for the connection to a PC.

- > an electromechanical cable. Its length depends on the maximum operating depth.
- > a winch. It can be either manual or electrical. It is provided with a 2 or more contacts slip-ring.
- > an external unit for data collection and storage. It is usually a portable PC or our IDROLOG.
- > software for data acquisition, display, processing and storage.

A stationary system needs:

- > a supporting mechanical structure (i.e. oceanographic buoy, beacon)
- > a Data Logger.
- > a transmission unit to the control station (e.g. radio, telephone, cable)
- > an autonomous power supply, based on batteries and solar panels. in case of telecom, a land-based control centre.

standard specifications of the probe's sensors

Parameter	Range	Accuracy	Resolution
Pressure (depth)	on request	0,10% f.s.	0,001 % f.s.
Temperature	-2...38 degC	0,005 degC	0,0005 degC
Conductivity	0...65 mS/cm	0,005 mS/cm	0,001 mS/cm
Oxygen	0...150 %sat	1,0 %sat	0,002 %sat
pH	2...12	0,01	0,0003
Redox	-1000...1000 mV	1,0 mV	0,03 mV
Turbidity	0...200 FTU	0,05 FTU	0,003 FTU
Chlorophyll 'a'	0...50 mg/m ³	±0,01 mg/m ³ 10 FTU	0,001 mg/m ³ 0,5 FTU
Sea current	-3...+3 m/s	30 mm/s	0,4 mm/s
Tide/Wave	0...10 m	0,25 % f.s.	0,006 % f.s.

Note: the range provided here is the one commonly adopted. Different ranges available, upon request.

*** subject to change without notice**