



# MEDUSA

Data sheet



## MECHANICAL SYSTEM

The mechanical system is designed to ensure the stability of the device and minimise damage to internal components.

It also has the necessary fastening and anchoring elements to prevent loss of the device due to currents or other phenomena.

To facilitate the maintenance of the device, the mechanical system is envisaged as a modular design that allows, as far as possible, the replacement of components without affecting the rest of the subsystems.



## COVER

The helmet also contains all the necessary connectors to perform calibration, battery charging or other checks related to electronics and power systems, without the need to disassemble the device.



## MEDUSA Technical data

<b>Finsih</b>	Vacuum cast polypropylene shell. 5 different colours. Red, blue, green, orange and yellow																																																																						
<b>Dimensions and weight</b>	Height: 12 cm / Width: 32 cm / Length: 32 cm / Weight: 3kg.																																																																						
<b>Resistance</b>	Classification P68 according to IEC 60529. Resistant to saline environments.																																																																						
<b>Mobile and wireless networks</b>	3G, 4G, Wifi & Bluetooth.																																																																						
<b>Wireless buttons and connectors</b>	The helmet contains all the necessary connectors to perform calibration, battery charging or other checks related to electronics and power systems, without the need to disassemble the device.																																																																						
<b>Integrated Apps</b>	Medusa. Android Store.																																																																						
<b>System requirements</b>	Android 8 or later. Windows 7 or later. Browser with internet access.																																																																						
<b>Environmental requirements</b>	Operating temperature: 5 to 55 °C.  Storage temperature: 10 to 30 °C.  Relative humidity: 5 to 95 % non-condensing.  Maximum operating altitude: tested up to 1,000 m																																																																						
<b>Languages</b>	English / Spanish.																																																																						
<b>Contents of the box</b>	MEDUSA / Charging cable / Sensors.																																																																						
<b>Sensors</b>	<table border="1"> <thead> <tr> <th>Sensor</th> <th>ph</th> <th>Dissolved Oxygen</th> <th>Temperature</th> <th>Electroconductivity</th> <th>ORP</th> <th>Turbidity</th> </tr> </thead> <tbody> <tr> <td>Range</td> <td>0.001 - 14.000</td> <td>0 - 100 mg/L</td> <td>-126 °C to 1254 °C</td> <td>0.07 - 50,000 µS/cm</td> <td>1 - 2000mV</td> <td>1 - 2000 NTU</td> </tr> <tr> <td>Resolution</td> <td>0.001</td> <td>+/- 0.05 mg/L</td> <td></td> <td></td> <td></td> <td>+/- 0,01</td> </tr> <tr> <td>Accuracy</td> <td>+/- 0.002</td> <td>~0.3 mg/L/per sec</td> <td>+/- 0.05 mg/L</td> <td>+/- 2%</td> <td>+/- 1mV</td> <td>+/- 80 NTU</td> </tr> <tr> <td>Response time</td> <td>1 reading per 5 min</td> <td>1 reading per min</td> <td>1 reading per 30 min</td> <td>1 reading per 30 min</td> <td>1 reading per 30 min</td> <td>1 reading per 60 min</td> </tr> <tr> <td>Temperature range °C</td> <td>1 - 60 °C</td> <td></td> <td></td> <td></td> <td>1 - 99 °C</td> <td>1 - 55 °C</td> </tr> <tr> <td>Maximum pressure</td> <td>50 PSI</td> <td>3,447 kPa (500PSI)</td> <td></td> <td>3,447 kPa (500PSI)</td> <td>100 PSI</td> <td>100 PSI</td> </tr> <tr> <td>Maximum depth</td> <td>30 m</td> <td>30 m</td> <td></td> <td>30 m</td> <td>30 m</td> <td>30 m</td> </tr> <tr> <td>Time before recalibration</td> <td>~1 Year</td> <td>~ 1 Year</td> <td></td> <td>~ 10 years</td> <td>~ 1year</td> <td>~ 5 years</td> </tr> <tr> <td>Service life</td> <td>~1.5 Years</td> <td>~ 5 Years</td> <td>~ 15 years</td> <td>~ 10 years</td> <td>~ 2 years</td> <td>~ 5 years</td> </tr> </tbody> </table>	Sensor	ph	Dissolved Oxygen	Temperature	Electroconductivity	ORP	Turbidity	Range	0.001 - 14.000	0 - 100 mg/L	-126 °C to 1254 °C	0.07 - 50,000 µS/cm	1 - 2000mV	1 - 2000 NTU	Resolution	0.001	+/- 0.05 mg/L				+/- 0,01	Accuracy	+/- 0.002	~0.3 mg/L/per sec	+/- 0.05 mg/L	+/- 2%	+/- 1mV	+/- 80 NTU	Response time	1 reading per 5 min	1 reading per min	1 reading per 30 min	1 reading per 30 min	1 reading per 30 min	1 reading per 60 min	Temperature range °C	1 - 60 °C				1 - 99 °C	1 - 55 °C	Maximum pressure	50 PSI	3,447 kPa (500PSI)		3,447 kPa (500PSI)	100 PSI	100 PSI	Maximum depth	30 m	30 m		30 m	30 m	30 m	Time before recalibration	~1 Year	~ 1 Year		~ 10 years	~ 1year	~ 5 years	Service life	~1.5 Years	~ 5 Years	~ 15 years	~ 10 years	~ 2 years	~ 5 years
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<b>Battery and power supply</b>	The device has a battery life of up to 2 months. Built-in rechargeable lithium-ion battery. Charging via USB connection with a power adapter.																																																																						

