

MPC-Buoy Technical Specifications

<p>Frame</p> <p>3x aluminum framed polyethylene buoy</p> <ul style="list-style-type: none"> Material: Rotationally-moulded UV-stabilized HDPE polyethylene Filling: Closed-cell polyurethane foam Buoy frame: Anodized aluminum Weight: 15 kg Size: 1200x600x200mm Buoyancy capacity 95 kg 	<p>Solar panels (3x)</p> <ul style="list-style-type: none"> Solar cell: Monocrystalline cell Rated Power (Pmax): 200Wp Weight: 16 kg Connectors IP67 Size: 1580x808x35mm
<p>Telemetry</p> <ul style="list-style-type: none"> GSM/GPRS CDMA (optional) Radio (optional) GPS (optional) Iridium Satellite (optional) 	<p>Data acquisition system</p> <p>4 x analog channel (user-configurable for either 4-20mA)</p> <ul style="list-style-type: none"> 1 x RS485 port for instruments 1 x high frequency pulse counting channel 1 SDI-12 input 3X RS232
<p>Battery</p> <p>1 x 24 volt lithium lifepo4</p> <ul style="list-style-type: none"> Capacity: 40 Ah Weight: 15kg 	<p>Solar Charge Controller</p> <p>Overcharge and Deep discharge protection</p> <p>Ip68 Protection</p>

Water Quality Sensor Package

<p>Fluorescence, including anti-fouling wiper: chlorophyll a, phycocyanin, turbidity</p> <ul style="list-style-type: none"> 470nm – Chlorophyll a 610nm – Phycocyanin 685nm Turbidity 	<p>pH</p> <ul style="list-style-type: none"> Combined electrode (pH/ref): special glass, Ag/AgCl ref. Gelled electrolyte (KCl) Range 0 – 14 pH Resolution 0,01 pH Accuracy +/- 0,1 pH
<p>Dissolved Oxygen</p> <ul style="list-style-type: none"> Optical measure by luminescence Measure ranges: 0.00 to 20.00 mg/L 0.00 to 20.00 ppm 0-200% 	<p>Temperature</p> <ul style="list-style-type: none"> Technology CTN Range 0.00 °C à + 50.00°C Resolution 0,01 °C Accuracy ± 0,5 °C Response time < 5 s

It is possible to add additional sensors to the water quality sensor package.

