

MPC-Buoy Technical Specifications

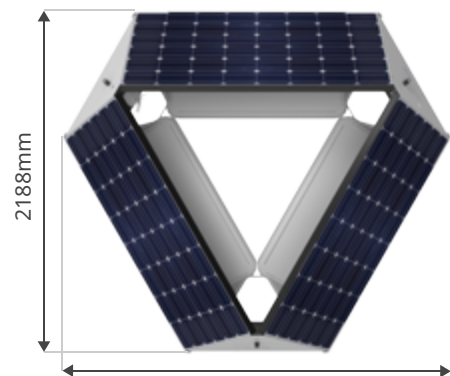
Frame	<ul style="list-style-type: none"> • 3x aluminum framed polyethylene buoy • Material: Rotationally-moulded UV-stabilized HDPE polyethylene • Filling: Closed-cell polyurethane foam • Buoy frame: Anodized aluminum • Weight: 15 kg • Size: 1200x600x200mm • Buoyancy capacity 95 kg
Solar panels (3x)	<ul style="list-style-type: none"> • Solar cell: Monocrystalline cell • Rated Power (Pmax): 195Wp Weight: 16 kg • Connectors IP67 • Size: 1580x808x35mm
Battery	<ul style="list-style-type: none"> • 1 x 24 volt lithium lifepo4 • Capacity: 40 Ah • Weight: 15kg
Data acquisition system	<ul style="list-style-type: none"> • 4 x analog channel (user-configurable for either 4-20mA) • 1 x RS485 port for instruments • 1 x high frequency pulse counting channel • 1 SDI-12 input • 3X RS232
Telemetry	<ul style="list-style-type: none"> • GSM/GPRS • CDMA (optional) • Radio (optional) • GPS (optional) • Iridium Satellite (optional)
Solar Charge Controller	<ul style="list-style-type: none"> • Overcharge and Deep discharge protection • Ip68 Protection

Side view



Total weight: 160kg

Top view



2540mm



Easy installation

Build on-site system. Two people can install the MPC-Buoy without the use of a crane.

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>Redox</p> <ul style="list-style-type: none">• Combined electrode• (Redox/reference):• Platinum tip, Ag/AgCl• AgAgCl.• Gelled reference (KCl)• Range - 1000 to + 1000 mV• Resolution 0,1 mV• Accuracy ± 2 mV
<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>Temperature</p> <ul style="list-style-type: none">• Technology CTN• Range 0.00 °C à + 50.00°C• Resolution 0,01 °C• Accuracy $\pm 0,5$ °C• Response time < 5 s
<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>It is possible to add additional sensors to the water quality sensor package.</p>