

FLEXIBLE, AFFORDABLE, MULTI-PURPOSE SENSOR BUOY WITH REMOTE COMMUNICATION

- * Environmental surveillance and monitoring
- * Water current surveillance and monitoring
- * General purpose marine research and monitoring
- * For ports, water management, shipping, universities, authorities, defence, etc.
- * Customer selects sensors: CTD, ADCP, TRIOS, etc.
- * Customer selects remote communication technique: Cellular, Satellite, LoRa or radio.
- * Low purchase and operational costs



MEMO, here equipped with TRIOS sensors, LoRa communication antenna and X-large batteries.

- * Rugged, reliable, unsinkable
- * All data stored on internal micro-SD card for back-up
- * Typically 12 months operation on standard alkaline batteries
- * Optionally measures wave parameters incl. wave height & direction, 'First 5' and spectrum
- * Buoy light and remote communication included in basic scoop.
- * Small size - easy to transport, store, deploy and recover
- * Swedish design and production

MEMO from Ocean Origo is a small, rugged, multi-purpose sensor buoy with wireless communication capacity. MEMO is great for environmental and water current logging and surveillance. It's also great for general purpose marine research and monitoring. Major job sectors are ports, shipping, water management, universities, authorities, defence, etc. MEMO may be equipped with various sensors according to customer's choice ranging from CTD, acoustic current meter, optical sensors, wave sensor and more. Its tight, compact design and stainless steel/polymer materials makes it robust and corrosion resistant. MEMO has enough battery capacity for a full year operation (depending on sensor configuration) on a standard alkaline battery pack. Sensor data is transmitted via satellite, cellular net, ZigBee or LoRa radio (customer's choice). Remote re-configuration is also possible.

Benefits: Its small size allows for small, low-cost vessel operation and simple transportation in a regular station car, which means very low operating costs. Purchase cost also compares favourable to market alternatives. Nonetheless, this is a really high quality sensor buoy with great capacity. Its solid construction implies long-lasting operation also under tough environmental conditions. MEMO offers great flexibility and can easily be adapted to customer's application and needs regarding sensor suite, communication technique, etc.

Dimension	<p>“MEMO”: Dia=100 cm. Height=145 cm excl. antenna. M=85 kg incl. standard batteries ¹⁾</p> <p>“MEMO Mini”: Dia=65 cm. H=145 cm excl. antenna. M=72 kg incl. standard batteries ¹⁾</p> <p>With X-large Battery pack: Add 38 cm & 25 kg.</p>
Scope of delivery	MEMO incl. standard alkaline battery unit, remote communication method according to customer's choice (LTE/4G, Iridium, ZigBee or LoRa), 16 GB micro SD memory card, LED light, manual and PC communication cable.
Options	<ul style="list-style-type: none"> • 400 m electronic unit casing instead of IP 67/68 casing • GNSS/GPS sensor • Larger micro-SD data memory card, up to 1 TB. • Ocean Origo's www-based graphic interface. View real-time data on www-site. • Data presentation on ViVa, an internet service operated by the Swedish authority 'Sjöfartsverket'. (Swedish customers only) • X-large battery pack • None-magnetic alkaline battery pack. Needed for current meter applications. • Mooring design and equipment incl. elastic element required for wave measurements. • Installation on site. Regular service and maintenance. • Ocean Origo Data delivery service.

1. Without mooring weight. Mooring weight recommended for improved stability.