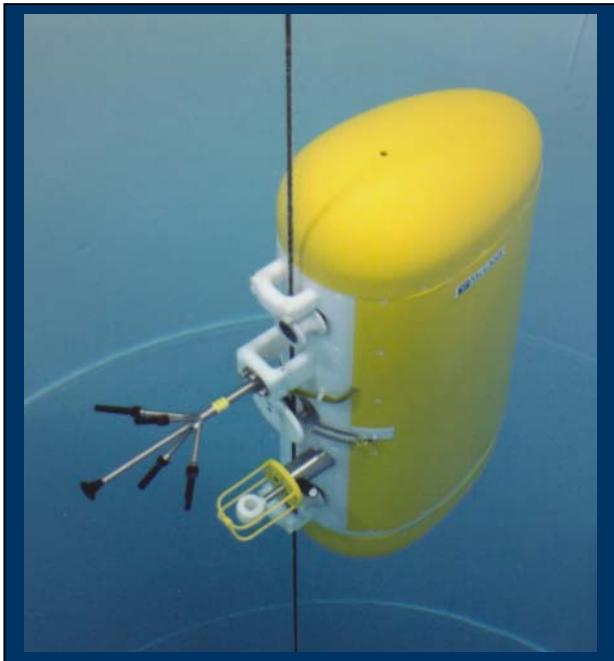


## McLane Moored Profiler (MMP)

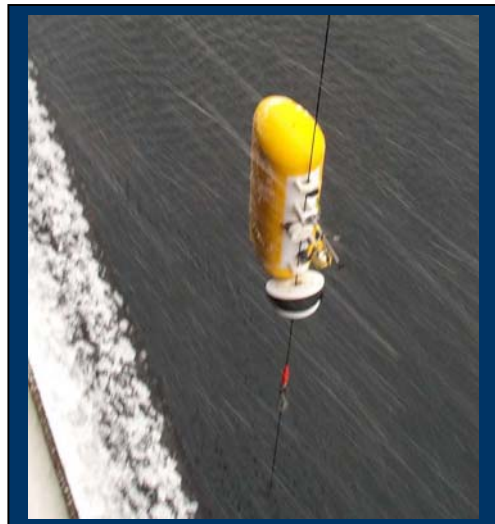
**Application:** An autonomous time-series instrument that collects *in situ* profiles of data such as temperature, salinity, and velocity. The MMP collects data from the water column by following an operator-programmed schedule and trajectory along a mooring cable. The expanding suite of supported sensors includes Falmouth Scientific Inc. (FSI) ACM and CTD sensors, Sea-Bird CTD, Sea-Bird Underwater Inductive Modem, Seapoint fluorometer and turbidity sensors, Wetlabs CDOM fluorometer, and Aanderaa Optode oxygen sensor.

### MMP Features and Benefits



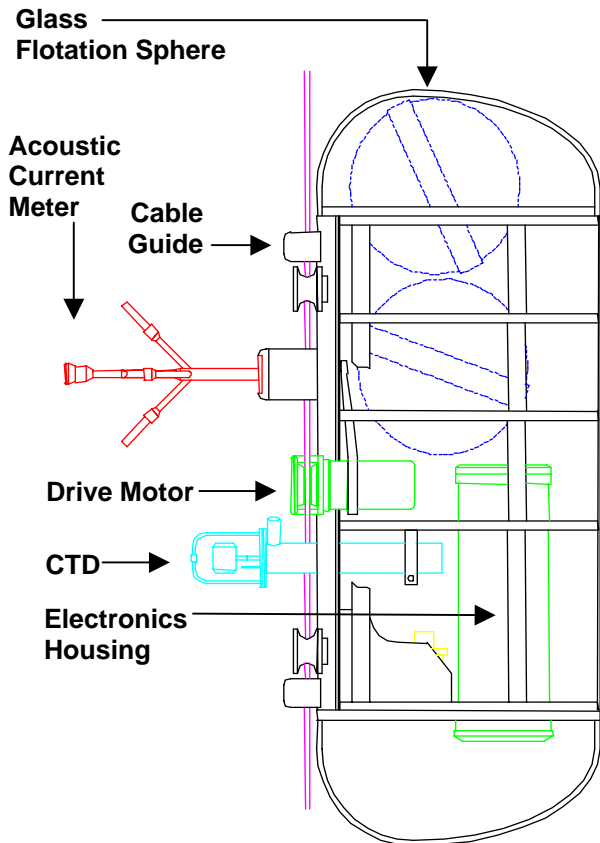
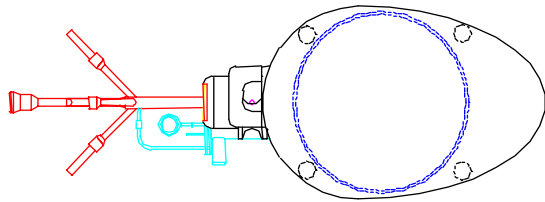
- ❖ **Real-time communication** via an optional underwater inductive modem (UIM).
- ❖ Ultra high molecular weight polyethylene **inner frame** provides **strength, durability** and **galvanic isolation** of metallic parts.
- ❖ A high-visibility **removable** polyethylene **skin** covers the frame.
- ❖ **Titanium** controller housing, motor housing and drive wheel.

- ❖ Designed for **easy access** to sensors, electronics, and battery.
- ❖ **Robust**, field-proven **drive train** and **electronics**.
- ❖ **Energy-efficient** drive motor and bearings **resist fouling** on the mooring cable.
- ❖ Non-volatile flashcard **data storage**.
- ❖ **User-defined** pressure **stops** and profiling **intervals**.
- ❖ Standard **sensor suite** includes a **CTD** and an Acoustic Current Meter (**ACM**).



\*U.S. Patent No. 5,869,756

# MMP Specifications



**Dimensions** 131 cm x 33 cm x 51 cm  
51 in x 13 in x 20 in

**Weight** In air, w/sensors 71 kg/155 lbs  
In water neutrally buoyant

**Depth/Temp Rating** Max depth 6,000 m  
Min temperature -35°C

**Data Storage** Compact or ATA-flash non-volatile data storage

**Power Requirement** 120 mA (profiling)  
300 µA (sleep)

**Profiling Speed** 25cm/sec

**Endurance** 240Ah battery

**CTD/ACM** ~ 2 Hz

**Data Acquisition**

**Fluorometer/Turbidity** User defined

**Data Acquisition**

**Pressure Housing** Titanium

**Frame** Ultra high molecular weight polyethylene (UHMW)

**Flotation Spheres** Borosilicate glass

**Connectors** Glass reinforced epoxy

**Hardware** Nylon, 316 stainless steel

**Drive Wheel** Urethane-coated titanium

**Guide Wheels** Ertalyte

## Supported Sensors

Falmouth Scientific Inc. (FSI) ACM  
FSI CTD  
Sea-Bird 52MP CTD  
Sea-Bird UIM (SBE 44)

Seapoint Turbidity  
Seapoint Fluorometer  
Wetlabs CDOM Fluorometer  
Aanderaa Optode Oxygen

*Specifications Subject to Change without Notice*



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09/06

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