



OSIL

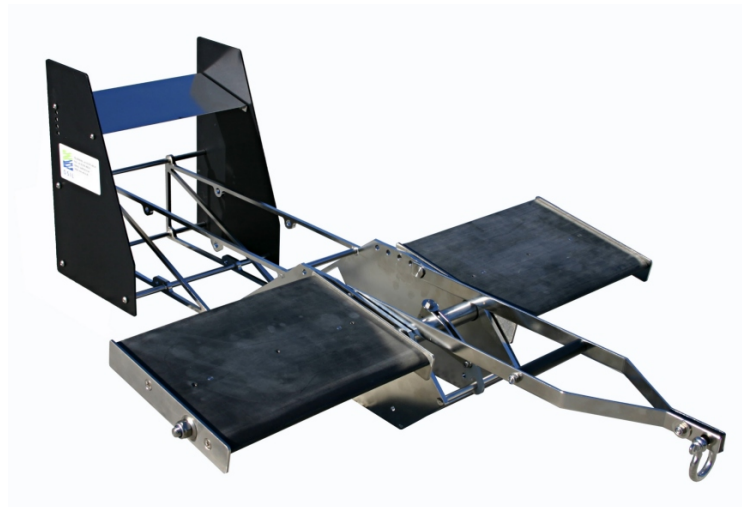
Environmental Instruments
and Systems

OSIL MINIBAT FW100

The Complete Solution for Coastal and Fresh Water Research Applications

The OSIL MiniBAT FW100 is an extremely lightweight towed instrumentation platform designed for use with a wide variety of data collection instruments. It provides an extremely flexible profiling system for use in estuaries, lakes, rivers, and coastal areas.

The MiniBAT FW100 is easily deployed by one person from virtually any size of vessel and performs at a manually adjusted depth below the surface or above the seabed from 2 depths down to 100 metres. Suggested towing speeds are in the range of 1 to 20 knots and the typical speeds for the average field survey are 5 to 20 knots.



The basic system consists of the MiniBAT FW100 tow body with user adjustable fixed wings.

The MiniBAT FW100 tow cable has eight conductors for user instrumentation

Features:

- | | |
|---|--------------------------------------|
| • Flexible mounting of existing instrumentation | • Profiling at speeds up to 20 knots |
| • Easy towing with a 5 to 10 meter power boat | • Basic depth stability: < 1 meter |
| • Operational depth - surface to 100 meters | • GPS data recorded (Optional) |

FOR FURTHER INFORMATION PLEASE CONTACT:

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MiniBAT FW100 Control

The MiniBAT FW100 is controlled using a set of fixed wings that are user adjusted on the surface to provide the required level of depressive force or lift as appropriate for the application. The fixed wings allow the MiniBAT FW100 to maintain a constant depth with boat speed and provides the user with a deep depth tow body able to operate at faster speeds and deeper depths than ever before.

The instrument log files are able to be integrated with a GPS string (NMEA 0183) to provide an accurate position of the collected data.

Systems

Complete systems including the MiniBAT FW100, instrumentation, sea cable, winch and systems integration can be supplied on request.

Please note we are also able to integrate existing instrumentation into the MiniBAT on request.

SPECIFICATIONS

Tow Body

Overall Length..... 75 cm
Overall Width70 cm
Body Width.....13 cm
Air Weight (unloaded).....11 kg

Construction Materials

Stainless Steel, PVC, Delrin

MiniBAT Instrument Data

Conductor Cable: 8 mm diameter, 8-conductor
(Kevlar suggested)
Data Format: NMEA 0183
I/O RS-232, 4800 baud

MiniBAT Operating Parameters

Safe Working Depth0 to 100 m
Operational Speed5 to 20 kts

Typical Instrumentation which can be supplied with The MiniBAT FW100 in an Integrated System includes:

CTD's	Dye Tracers
Chlorophyll	Sound Velocity Sensors
Turbidity	Optical Plankton Counters
DO	Acoustic Instruments
pH	PAR



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