

SWALE OCEANOGRAPHIC



ULTRACOMPACT PRECISION ECHOSOUNDER ECHOLOGGER ECT400

The **ECHOLOGGER** series are a family of compact sonar altimeters suitable for many different applications, such as:

- Altitude Measurement for Navigation
- Sediment Transportation Monitoring
- Bridge Scour Monitoring
- Harbour Security
- Wave/Tide Monitoring



Features

- Real-time backscatter data collection along full water columns
- Ultra compact
- Ideal for navigation of ROV/AUVs
- Serial interface (RS232, 485, 422)
- Compatible with Hypack, Topcon receiver, HydroPro (Trimble)
- Seacon underwater wet connector in place
- User friendly GUI software provided for instant image update
- Tilt sensor integrated (option)
- Real-time backscatter data collection along full water columns
- Depth ratings: 100m 1500m (6000m for autonomous version)



USB or RS-232, RS-422 or RS-485 data output (top or side connector)

Autonomous self-recording model

Integrated Tilt Sensor





SWALE TECHNOLOGIES Ltd

Software

Dedicated control software is included though the echo sounder is also compatible with *Hypack, Topcon receiver, or HydroPro* and can be commanded via any terminal programme.

Specifications

Acoustic Frequency 450 KHz

Beam width 5° Conical (- 3dB)

Transmit Pulse Width 10μsec – 200μsec (10μsec steps)

Ranges 0.15 - 100m Housing ECT400 - PVC

ECS400 - Aluminium (anodised)

Connector SEACON

Operating Depth Standard - 100m, ECT400-1500 - 1500m

Repetition (Ping) 10 Hz max
Sampling Rate 100 kHz
Water Column Resolution >7.5 mm
Altimeter Range Resolution <10 mm
Temperature Resolution 0.1 °C

Temperature Accuracy 0.5°C (- 10°C - +50°C)

Tilt sensor integrated (optional)

Dual-axis, horizontal operation ± 90° Inclination data accuracy 0.1

Digital Output Interface RS-232, RS-485 or RS-422

Communication Speed Data 4800 – 115200 baud (115200 baud default)

Output Format ASCII TXT, NMEA 0183, or user defined (optional)

Configuration and Data reading Echologger Control Program or any terminal program

Operation Temperature - 10°C - + 50°C

Power supply 8 - 75 Vdc, 2W max

Dimensions (excluding connector) ECT400: D 56mm x L 85mm

ECS400: D 55mm x L 70mm

Weight ECT400 - 270g (PVC),

ECS400 - 310g (Aluminium),

Other features Hypack Compatible (NMEA), GPS integrated data



