xylem
Let's Solve Water

CastAway-CTD
WITH PROFILING AND ANALYSIS SOFTWARE

Reliable Data in Minutes

The CastAway®-CTD is a lightweight, easy to use instrument designed for quick and accurate conductivity, temperature, and depth profiles. Each cast is automaticallly referenced with both time and location using its built-in GPS receiver. The CastAway software displays profiles of the casts in addition to mapping the locations of the data collection points. Data integrate directly with RiverSurveyor Live and HYPACK® software, and can also be exported to MATLAB® for applying sound speed corrections.

The rugged, non-corrosive housing, AA battery power and computer-free operation reflect the technician-friendly pedigree of the CastAway-CTD.

- Plots of conductivity, temperature, salinity and sound speed versus depth can be viewed immediately on color LCD screen

- 5Hz response and sampling rate, accurate to 0.1 (PSS-78), 0.05°C

- Internal GPS and Bluetooth wireless data download

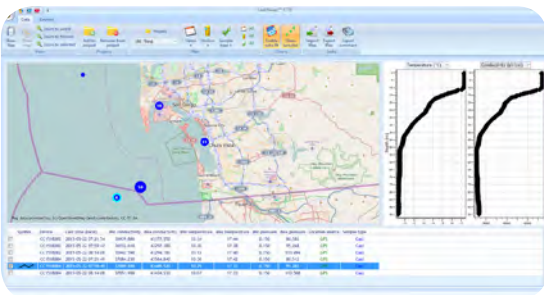- Fully compatible with the RiverSuveyor-Live, HydroSurveyor and HYPACK

SonTek
a xylem brand

CastAway-CTD

The CastAway-CTD Output Parameters

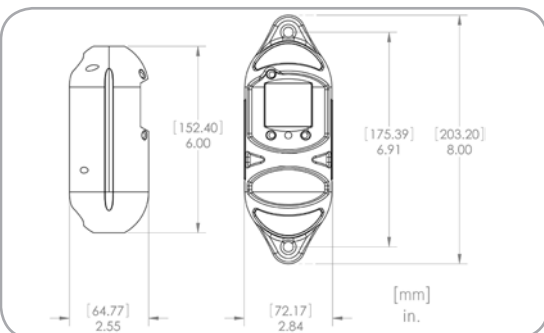|	Range	Resolution	Accuracy	Measured or Derived
Conductivity	0 to 100,000 µS/cm	1µS/cm	± 0.25% ± 5 µS/cm	Measured
Temperature	-5° - 45° C	0.01° C	± 0.05° C	Measured
Pressure	0 to 100 dBar	0.01 dBar	± 0.25% FS	Measured
Salinity	Up to 42 (PSS-78)	0.01 (PSS-78)	± 0.1 (PSS-78)	PSS-78[3]
Sound Speed	1400 - 1730 m/s	0.01 m/s	± 0.15 m/s	Chen-Millero[4]
Density[1]	990 to 1035 kg/m^3	0.004 kg/m^3	± 0.02 kg/m^3	EOS80[5]
Depth	0 to 100 m	0.01m	± 0.25% FS	EOS80[5]
Specific Conductivity[2]	0 to 250,000 µS/cm	1µS/cm	± 0.25% ±5 µS/cm	EOS80[5]
GPS			10 m	

[1]Based on temperature resolution and accuracy.
[2]Based on 100,000 µS/cm at -5° C.
[3]1978 Practical Salinity Scale.
[4]Chen-Millero, 1977. Speed-of-sound in sea water at high pressures.
[5]International Equation of State for sea water (EOS-80).

Example of CastAway-CTD software

Rugged CastAway-CTD storage case

Memory	15 MB (750+ casts based on typical usage)
Communications	Bluetooth class II, up to 10 m range
Power	2 "AA" alkaline batteries, 40 hours continuous use
Data Output Format	- ASCII (CSV) -Hypack -MATLAB® -CARIS
Environmental	- Depth range: 0-100 m - Use temperature: -5° to 45° C - Storage temperature: -10° to 50° C
Sampling Modes	- Casting (up/down) - Point sample (moving the unit back and forth)
Software	- Windows XP/Vista/8/10 - Geo-referenced - Multi-language - Data plots, filtering, import/export
Accessories	- Rugged plastic storage/shipping case - Polyurethane jacket - 15m deployment line - Bluetooth dongle - 4 "AA" alkaline batteries - Two locking carabiners - Three magnetic stylus pens - Cleaning brush
Thermistor Response	Less than 200 ms (5 Hz)
Sampling Rate	5 Hz
Weight	In air: 1.0 lb (0.45 kg) In water: 0.06 lbs (0.03 kg)

Quick access to the video and training resources you need at **sontek.com/videos**

sontek.com/castaway-ctd

Welcome to the world of Observator

Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

www.observator.com