

Interface Boxes for Sea-Bird Instruments

Sea-Bird manufactures several types of Interface Box, designed for use with specific products and for specific applications. Depending on application, an Interface Box includes a combination of the following functions:

- RS-232 to RS-232 junction.
- Optical-isolation — protects the CTD from electrical noise and possible accelerated corrosion caused by ground loop current. This may be necessary for applications where real-time data is transmitted to the ship or the instrument is powered from the ship. Some Sea-Bird instruments (such as the SBE 25) include internal optical isolation, and therefore do not require an Interface Box for optical isolation.
- NMEA Interface — interfaces with a navigation system to append latitude, longitude, and time to the CTD data stream.
- Remote Temperature Interface — interfaces with a remote temperature sensor to append remote temperature data to the CTD data stream.
- AC to DC Power — converts AC power to DC power appropriate for the instrument.
- DC to DC Power — converts DC power to DC power appropriate for the instrument.

All of our interface boxes have a five-year limited warranty.



Example:
PN 90488.2 SeaCAT/Sealogger
RS-232 & Navigation Interface Box

Uses

An Interface Box comes **standard** with the following:

Instrument	Interface Box
SBE 21 SeaCAT Thermosalinograph	PN 90488.2 SeaCAT/Sealogger RS-232 & Navigation Interface Box, AC-powered
SBE 35 Deep Ocean Standards Thermometer	PN 90248 Power Supply & Interface Box

An Interface Box **may** be used with the following:

Instrument	Interface Box
SBE 16, 16plus, 16plus V2 SeaCAT CT(D) Recorder; SBE 19, 19plus, 19plus V2 SeaCAT CTD Profiler; SBE 25 or 25plus Sealogger CTD	Two models are available: PN 90488.2 SeaCAT/Sealogger RS-232 & Navigation Interface Box, AC-powered PN 90545 SeaCAT/Sealogger RS-232 & Navigation Interface Box, DC-powered
SBE 17plus V2 Searam Recorder & Auto Fire Module	PN 90488.2 SeaCAT/Sealogger RS-232 & Navigation Interface Box, AC-powered (external power, permitting setup and data upload without use of battery capacity)
SBE 35RT Digital Reversing Thermometer	PN 90248 Power Supply and Interface Box
SBE 45 MicroTSG (thermosalinograph)	PN 90402 SBE 45 Power, Navigation, & Remote Temperature Interface Box

Consult Sea-Bird with your application details.

Examples



PN 90488.2 SeaCAT/Sealogger
RS-232 & Navigation Interface Box



PN 90402 SBE 45 Power, Navigation,
& Remote Temperature Interface Box



PN 90248 Power Supply &
Interface Box for SBE 35 / 35RT