

Interface Boxes



Description

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 being transmitted to the ship or applications where the instrument is powered from the ship. Note that some Sea-Bird instruments (such as the SBE 25) include internal opto-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 data 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.

Interface Box Use

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

Instrument	Interface Box
SBE 21 SEACAT Thermosalinograph	PN 90488 - SEACAT/SEALOGGER RS-232 and Navigation Interface Box, AC-powered
SBE 35 Deep Ocean Standards Thermometer	PN 90248 Power Supply and Interface Box

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

Instrument	Interface Box
SBE 16, 16 <i>plus</i> , or 16 <i>plus</i> V2 SEACAT Conductivity and Temperature Recorder; SBE 19, 19 <i>plus</i> , or 19 <i>plus</i> V2 SEACAT Profiler; or SBE 25 SEALOGGER CTD	Two models are available: PN 90488 – SEACAT/SEALOGGER RS-232 and Navigation Interface Box, AC-powered PN 90545 – SEACAT/SEALOGGER RS-232 and Navigation Interface Box, DC-powered
SBE 35RT Digital Reversing Thermometer	PN 90248 Power Supply and Interface Box
SBE 45 MicroTSG (thermosalinograph)	PN 90402 – SBE 45 Power, Navigation, and Remote Temperature Interface Box

Consult Sea-Bird with the application details.

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