

The SBE 46 LCD Display Box is designed for indoor shipboard or laboratory display of up to four parameters obtained from an external instrument, without the need for a dedicated computer. The SBE 46 can interface with many Sea-Bird instruments. The SBE 46:

**Receives power from and displays data from —**

- SBE 11*plus* V2 Deck Unit  
(interfacing with SBE 9*plus* CTD)

**Provides power to and displays data from —**

- SBE 37-SM MicroCAT Conductivity and Temperature (pressure optional) Recorder with optional 4-pin I/O bulkhead connector
- SBE 37-SI MicroCAT Conductivity and Temperature (pressure optional) Sensor
- SBE 38 Digital Oceanographic Thermometer
- SBE 39 Temperature (pressure optional) Recorder with optional 4-pin I/O bulkhead connector
- SBE 45 MicroTSG (Thermosalinograph)



## DISPLAY DESCRIPTION

The SBE 46 has a two-line LCD display with twenty, 12.7 mm (0.5 inch) high characters per line. Each line can display up to two parameters with user-programmable labels, providing a maximum of four parameters total.

## OPERATION OVERVIEW

Communication between the instrument and the SBE 46 is over an internal, 3-wire, RS-232C link, providing real-time data transmission and display. The SBE 46 can be externally-powered (115/230 VAC or 6 - 24 VDC) or internally-powered with a 9-volt battery.

User-selectable modes include:

- **Programming mode** – While connected to a computer and running a terminal program, setup commands can be sent to the SBE 46. Setup parameters are stored in EEPROM, so the SBE 46 only has to be programmed once for a particular data format.
- **Testing mode** – While connected to a computer and running a terminal program, data input to the computer is displayed on the SBE 46.
- **Operating mode** – While connected to an instrument that is logging data, the SBE 46 displays the instrument's data. The SBE 46 can be programmed to sound an alarm, acting as a remote depth display with alarm when used with the SBE 11*plus* V2.

## SOFTWARE

The SBE 46 is supplied with SEATERM®, a powerful terminal program for easy communication and setup. SEATERM can send commands to the SBE 46 and/or the connected instrument to provide system setup and testing. Note that SEATERM does not process the data. SEATERM is a Windows 95/NT application.

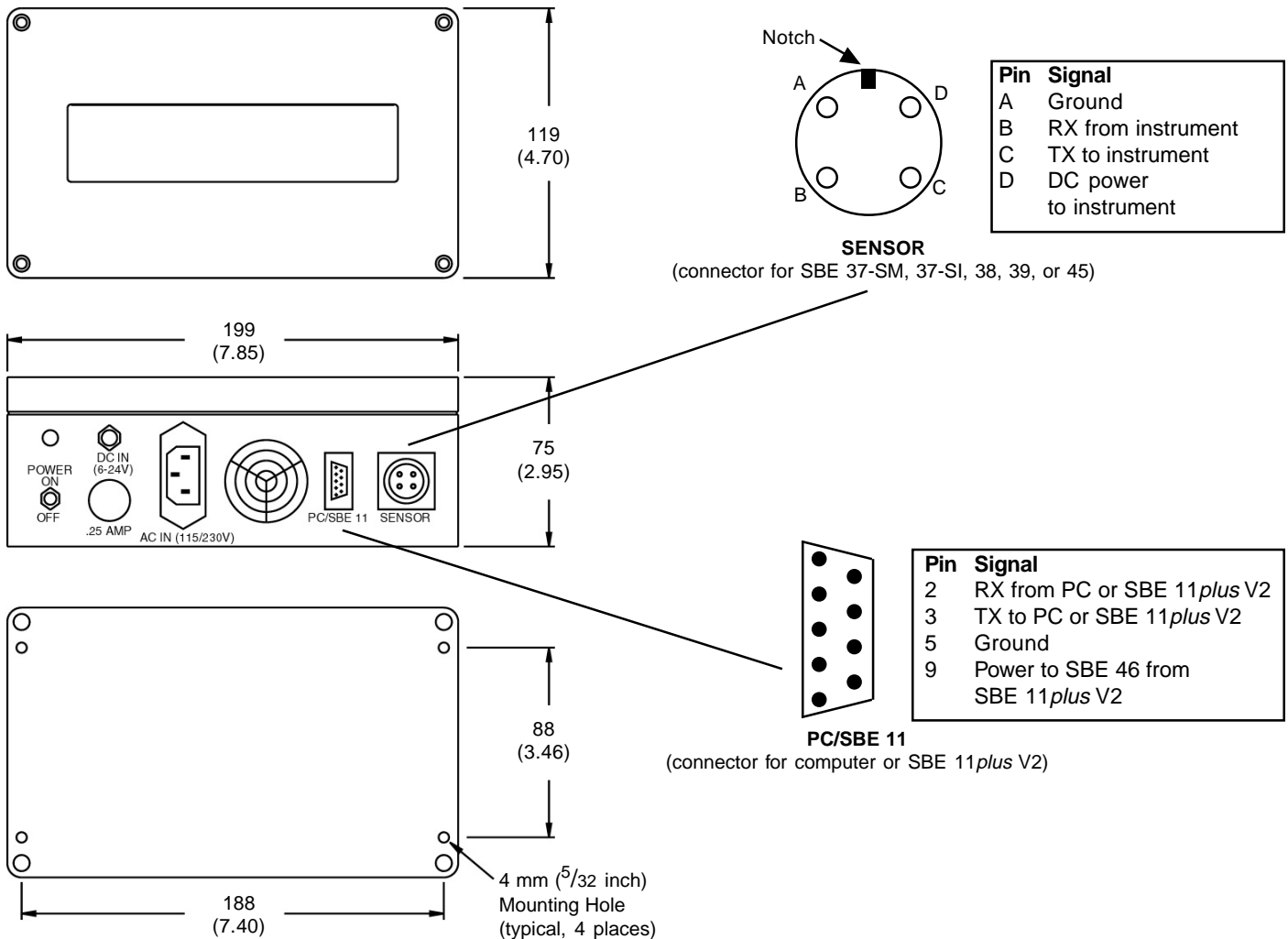
## MECHANICAL INSTALLATION

- The SBE 46 has four 4 mm ( $\frac{5}{32}$  inch) holes for mounting with customer-supplied hardware.

## SPECIFICATIONS

<b>Display</b>	2 line display, 20 characters each line, up to two parameters and associated user-programmable labels per line, character height 12.7 mm (0.5 inch)
<b>Input AC Power</b>	115/230 VAC
<b>Input DC Power</b>	6 - 24 VDC (external power or internal, 9 volt alkaline or lithium transistor battery)
<i>Operating Current</i>	20 milliamps when not powering an external instrument
<b>Environmental</b>	For indoor use; do not get wet
<b>Materials</b>	ABS plastic housing
<b>Weight</b>	0.9 kg (2.0 lbs)

Dimensions in millimeters (inches)



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