WinFrog Device Group:	OUTPUT
Device Name/Model:	**EPC9802**
Device Manufacturer:	EPC Laboratories, Inc. 42A Cherry Hill Drive, Danvers, MA 01923 USA Phone: 978-777-1996 Fax: 978-777-3955
Device Data String(s) Output to WinFrog:	
WinFrog Data String(s) Output to Device:	
WinFrog Data Item(s) and their RAW record:	DATA OUTPUT 450

DEVICE DESCRIPTION:

The EPC9802 is a dual channel thermal graphic recorder. This driver is designed to output either bathymetric or seismic data to the EPC9802.

<u>STANDARD FEATURES</u>
The 9800 features thermal printhead technology that utilizes heat sensitive paper or film. With resolution of 203 dots per inch, as many as 64 shades of gray can be printed across the 20 inch display. This microprocessor-based recorder also provides a versatile array of interfaces. Through the RS-232 interface, the recorder may be remotely controlled. All setup functions can be programmed into battery-backed RAM that will, if desired, override the control panel. Additional remote capabilities are possible through IEEE-488, RS-422, and Parallel Printer port inputs. For analog signal processing, two completely independent channels operate on separate time bases, each with independent delays and key rates.

<u>APPLICATION</u>
Utilizing the analog interfaces, *real-time* data can be displayed at up to 32 scans per second, while any combination of the digital interfaces facilitates post-processing and all remote control functions. This recorder can be used for side-scan sonar, sub-bottom profiling, or seismic data processing.

DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:
Serial
Configurable Parameters

WINFROG I/O DEVICES > CONFIGURE DEVICE:
This device must be configured at the I/O Device window level. In the I/O Devices
window click the device name to select it, then right-click and select Configure Device.
The EPC9802 : EPC9802 dialog box appears, as seen below.

This dialog allows you to configure an annotation to be sent to the EPC9802 printer.
Enter the desired annotation, select the appropriate font size and click the Annotate
button. In the Enable messages section, specify the desired interval for the specified
message to be sent to the EPC9802. The Message Position options control the
justification of the messages.

In the Configuration section, select whether the data is to be Bathymetry data or
Seismic data. If Bathymetry is selected, choose the appropriate frequency and depth
range from the available options. If Seismic is selected, choose from the Analog #1
or #2, which represent the two available channels, and select the appropriate Range
(scale) from the dropdown list. The available ranges will change automatically
depending on the selection made in the Configuration section. The Print Mode is
typically set to Immediate.

In the Recorder Settings section, there are several options to be configured from the
respective dropdown lists. The output to the EPC9802 can be delayed by one of the
available time options. You can specify the desired Lines Per Inch (LPI) depending

on the resolution required for the printout. The desired numbers for the Scan and Key options can also be selected from the dropdown lists. For all four of these configurations, the appropriate Set button in the lower right hand corner of the dialog must be clicked in order to make the change. Also in the Recorder Settings section, enter the Sweep, Leg and Line numbers in the appropriate fields.

WINFROG VEHICLE > CONFIGURE VEHICLE DEVICES > DEVICE DATA ITEM > EDIT:

Adding the EPC9802 device creates the DATA OUTPUT data item. Once the data item has been added to the vehicle, it must be edited to suit the application.

Data item: OUTPUT, EPC9802, DATA OUTPUT

Highlight the OUTPUT, EPC9802, DATA OUTPUT data item and click the Edit button to open the Configure Output Offsets dialog box as seen below.
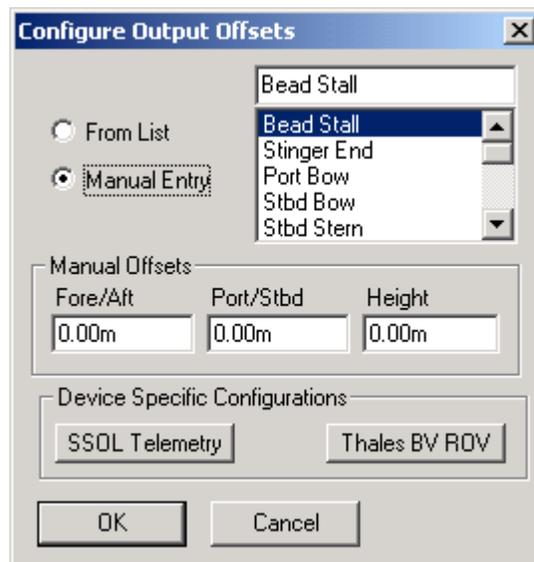
Select the desired reference point for the coordinates that are to be placed in the telegram. If an offset point is not selected and the offsets are set to 0, the coordinate output will be the Central Reference Point (CRP).

The SSOL Telemetry and Thales BV ROV buttons are not used for this device.