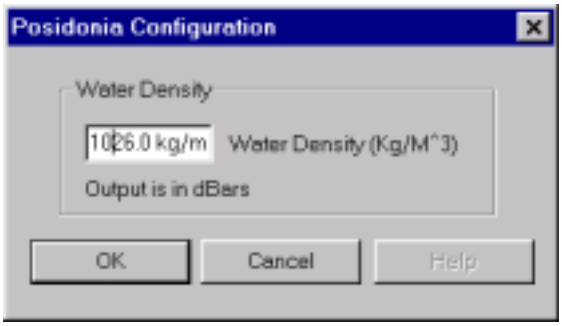
WinFrog Device Group:	OUTPUT
Device Name/Model:	Posidonia Depth
Device Manufacturer:	
Device Data String(s) Output to WinFrog:	none
WinFrog Data String(s) Output to Device:	$PMEVL, code, MEA,8,pressure*<check sum><CR><LF>
WinFrog .raw Data Record Type(s):	No data is recorded.

DEVICE DESCRIPTION:
This outputs the depth of a Posidonia USBL system's beacon to the Posidonia control unit. If the Posidonia beacon falls outside of a certain sized cone, the Posidonia unit cannot determine the depth (Z component). This device is specific to the Posidonia system, and its function is to output a depth to the system so that the X and Y components from the beacon to the hydrophone can be determined. In order for this device to function, the vehicle to which this device is attached must have its own separate depth sensing device The pressure is in deciBars and the code is selectable by the operator.

DEVICE CONFIGURATION INSTRUCTIONS:

Baud Rate:	9600
Bits Per Character:	8
Stop Bits:	1
Parity:	None

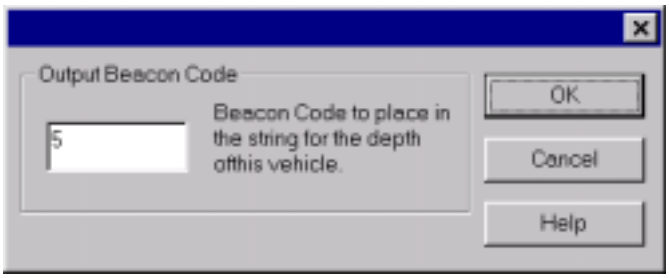
WINFROG I/O DEVICES > CONFIG OPTIONS:
The following dialog allows you to enter the water density in order to calculate the pressure. The density must be in kilograms per cubic meter.



WINFROG VEHICLE TEXT WINDOW > CONFIGURE VEHICLE DEVICES > DEVICE > EDIT OPTIONS:

Data item: OUTOUT, Posidonia Depth, DATA OUTPUT,5

Attach this data item to the ROV for which depth is to be output. When edited the following dialog appears:



Initially a –1 will appear which disables output. Enter the code required by the Posidonia for this particular beacon on this vehicle (See Posidonia manual). Up to three beacons may be added to each vehicle and more than one vehicle may have beacons.