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|---|--------------------------------|
| WinFrog Device Group: | OUTPUT |
| Device Name/Model: | INSIX |
| Device Manufacturer: | |
| Device Data String(s) Output to WinFrog: | None |
| WinFrog Data String(s) Output to Device: | \$INSIX telegram. See below |
| WinFrog .raw Data Record Type(s): | OUTPUT: Type 450 |

DEVICE DESCRIPTION:

Outputs the heave associated with the vehicle. Output rate is approximately 5 hertz.

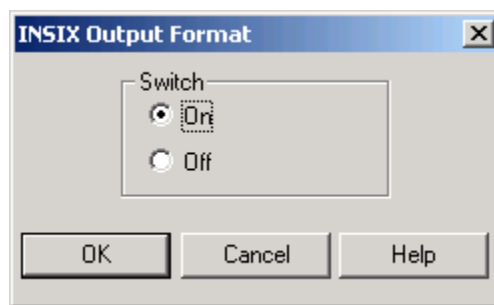
DEVICE CONFIGURATION INSTRUCTIONS

WINFROG I/O DEVICES > EDIT I/O:

Serial
Configurable Parameters

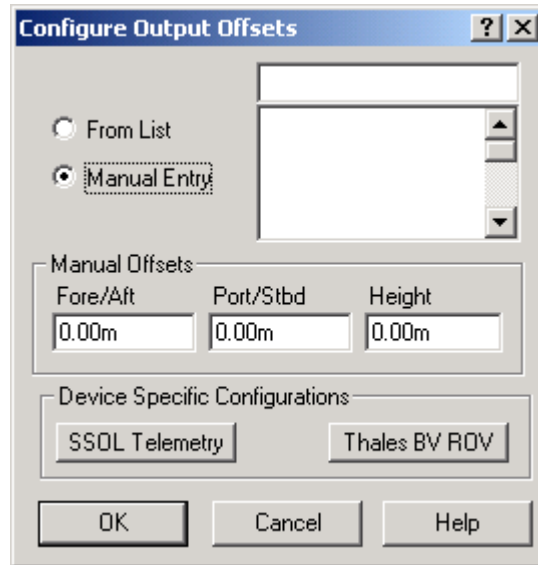
WINFROG I/O DEVICES > CONFIGURE DEVICE:

Use the device configuration dialog box shown below to stop and start output.



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

The **OUTPUT,INSIX, DATA OUTPUT** data item is added to the vehicle's device list and must be edited to suit the application. When edited the following dialog box appears:



Configure Output Offsets:

If an offset point is entered a lever arm calculation will be made to the point entered. Only the heave and heave rate are output in this telegram. Currently the only heave devices that work with this device are the TSS DMS and TSS HRP; these devices both decode the TSS1 format and do not have to be TSS instruments.

Note: In order to process the lever arm calculations properly the TSS DMS or TSS HRP devices must also be set up properly. These instruments should be placed at the center of gravity. If this is not possible then the lever arm offsets should be entered into the instrument and the instrument configured to output the heave, pitch, and roll with respect to the center of gravity. This is because when this INSIX device makes its lever arm calculation it assumes the heave assigned to the vehicle from either the TSS HRP or TSS DMS is with respect to the center of gravity. See the TSS DMS or HRP device documents for more information.

Device Specific Configurations:

These two buttons have no effect on this device

Data Output:

The INSIX output is:

```
$INSIX,hhmmss.ss,hhhh,00000,00000,00000,00000,00000,rrrr,  
0000,0000,0000,0000,0000,00000kk<CR><LF>
```

Where:

hhmmss.ss = time

hhhhh = heave (centimeters)

rrrr = heave rate (centimeters/second)

kk = check sum