WinFrog Device Group:	**COUNTER**
Device Name/Model:	**Vetter Counter**
Device Manufacturer:	IVO GmbH & Co. KG P.O. Box 3360 D-78022 Villingen-Schwenningen Phone: +49 (0)7720 942-0 Fax: +49 (0)7720 942-999 Website www.ivo.de E-mail info@ivo.de
Device Data String(s) Output to WinFrog:	<STX>aallRdddddd<ETX> where: • STX is the start of transmission character (0x02) • aa is the address to be interrogated • ll is the line to be interrogated, '01' is the main count • R indicates that the unit is in Run mode • dddddd is the count data in the units the unit is configured to output • ETX is the end of transmission character (0x03) Note that the unit requires polling before it will send this telegram.
WinFrog Data String(s) Output to Device:	<STX>aall<ETX> where: • STX is the start of transmission character (0x02) • aa is the address to be interrogated, this is configurable within WinFrog • ll is the line to be interrogated, '01' is the main count and is hard coded within WinFrog • ETX is the end of transmission character (0x03)
WinFrog Data Type(s) and their RAW record	COUNT 492

DEVICE DESCRIPTION:
The Vetter Counter provides an integer count value when interrogated. The interface is RS232 serial.

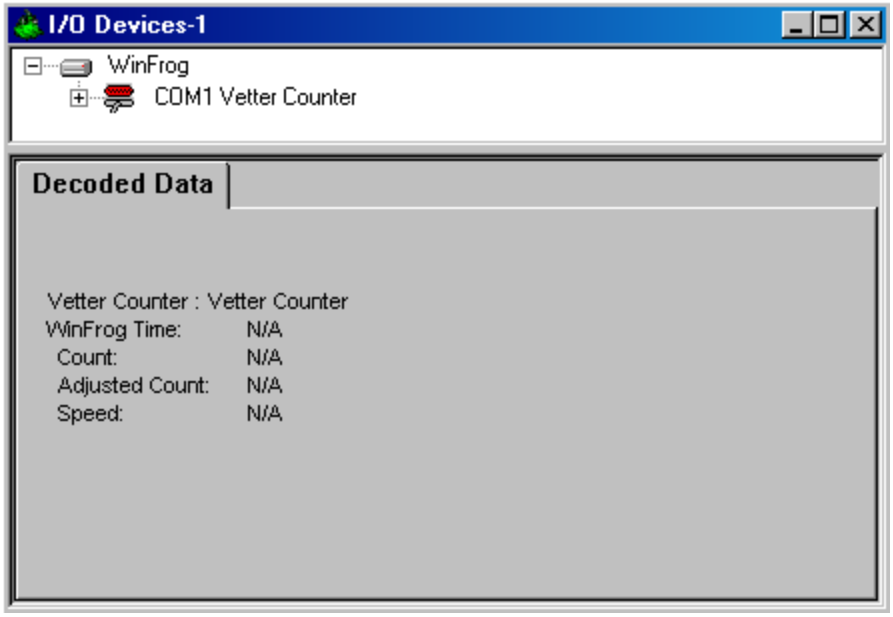
DEVICE CONFIGURATION INSTRUCTIONS:

WINFROG I/O DEVICES > EDIT I/O:

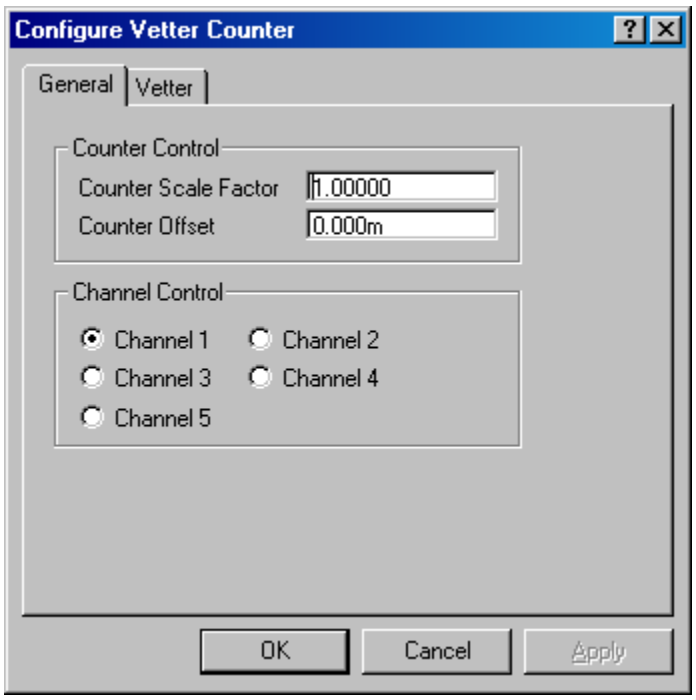
Baud Rate:	(Adjustable) 4800
Bits Per Character:	8
Stop Bits:	1
Parity:	EVEN

WINFROG I/O DEVICES > CONFIGURE DEVICE:

The Vetter Counter device is added to WinFrog from the COUNTER device group. Adding a Vetter Counter device to WinFrog creates one data item: Count. Refer to the *I/O Devices* figure below.



The Vetter Counter device must be configured at the I/O Devices level. In the I/O Devices window, highlight the Vetter Counter device, right-click and select Configure Device. The Configure Vetter Counter dialog box will appear, as seen below.



The dialog contains two tabs, General and Vetter. The first allows you to configure basic counter parameters, the second provides configuration of settings particular to the Vetter plus the roll over issue.

General Tab

Counter Scale Factor

The cable count as read from the counter can be scaled to correct for any known calibration errors in the counter. For example, if it is known that the counter sends 1000 meters when in actual fact only 990m has been paid out, the scale factor would be 0.99.

Offset

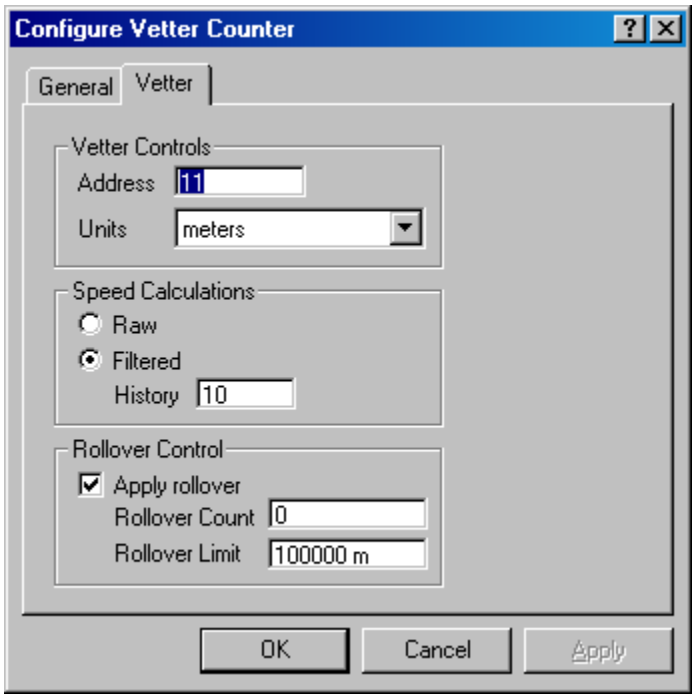
This allows the input of a known offset to be applied to the cable count. For example, if the counter is sending data and 0 meters is associated with a point on the cable that is known to be 550 meters, the offset value entered would be 550m.

Channel Control

This allows you to select the WinFrog channel that the counter data is to be assigned to. These are as follows:

Channel 1 Telephone or power cable
Channel 2 Plow
Channel 3 Linear Cable Engine
Channel 4 Cable Engine Drum 1
Channel 5 Cable Engine Drum 2

Vetter Tab



Vetter Control

Address The Vetter Counter provides data at different addresses. The address that is to be interrogated for count is entered here.

Units The units that the counter outputs the count in is selected here. Note that if the unit type is not listed, the meters unit should be selected and the conversion to actual meters is to be addressed by entering the appropriate conversion factor for the Counter Scale Factor parameter in the General Tab.

Speed Calculations

The Vetter Counter device calculates a single epoch cable speed based on the current and last cable count value and the elapsed time between the updates. You can configure the use of the speed value as follows:

Raw The single epoch calculation is used as the cable pay out speed.

Filtered The single epoch speed value is added to a fading history sample set and the central tendency of the sample is used as the current epoch speed.

History If the Filtered option is selected, the length of the sample, which affects the responsiveness of the filter to changes, can be set. The allowed range is from 2 to 30.

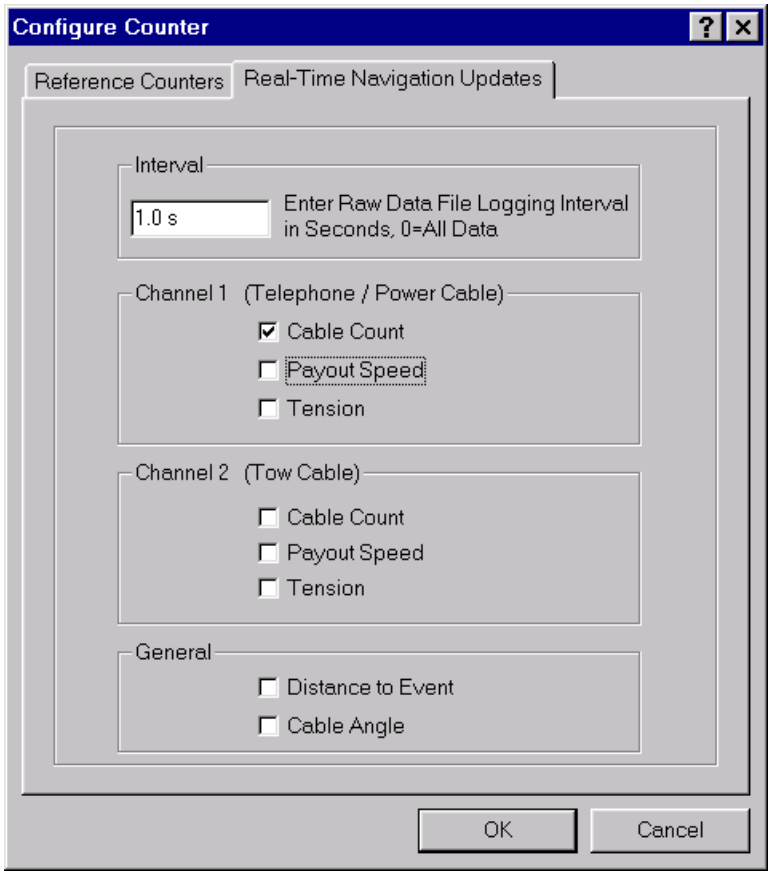
Rollover Control
The Vetter Counter device count range is dependent upon the units selected. WinFrog can handle counts that exceed those output by the device by monitoring the roll over as follows:

Apply Rollover You can control whether or not to use the rollover feature.

Rollover Count WinFrog monitors the rollovers detected and uses this value to determine the cable count not included in the actual counter output. You can also override this and enter a rollover count. Note that the rollover detection includes the case when cable is being retrieved and the counter goes past 0.

Rollover Limit The rollover limit must be entered in order for WinFrog to detect the rollovers and correctly apply the Rollover Count to determine the actual cable count. This is entered in the units that the counter is outputting in.

WINFROG VEHICLE > CONFIGURE VEHICLE-DEVICES > DEVICE > EDIT:
The **Vetter Counter COUNT** data item must be edited once it is added to a vehicle's device list. Highlight the **COUNTER, Vetter Counter, COUNT** data item in the vehicle's device list and click the **Edit** button. The **Configure Counter** dialog box appears as seen below.



This dialog has two tabs. The first, **Reference Counters**, does not apply to this counter and should be left at the defaults. The second, **Real-Time Navigation Updates**, enables/disables data from this device to be passed to the vehicle. The only value that is obtained here is the count, which is placed into channel one. If another counter is attached to this vessel (say to obtain tension), one must uncheck channel one count at the other counter. If this is not done, the other device will overwrite the count value from this device.

Similarly, uncheck all remaining values, as this counter does not read them. See above. You can control the amount of data written to the raw file by changing the value in the interval box.