

WinFrog Device Group:	COUNTER
Device Name/Model:	Generic Tension
Device Manufacturer:	
Device Data String(s) Output to WinFrog:	Variable
WinFrog Data String(s) Output to Device:	NONE
WinFrog Data Item(s) and their RAW record:	CABLE COUNT 492

DEVICE DESCRIPTION:

This is a driver designed to read tension data from the input data string. It allows you to define the data string parameters required to read the tension data. Typically, either the format of the data string is known or can be viewed in programs such as HyperTerminal in order to determine which field (column) in the data string contains the tension data.

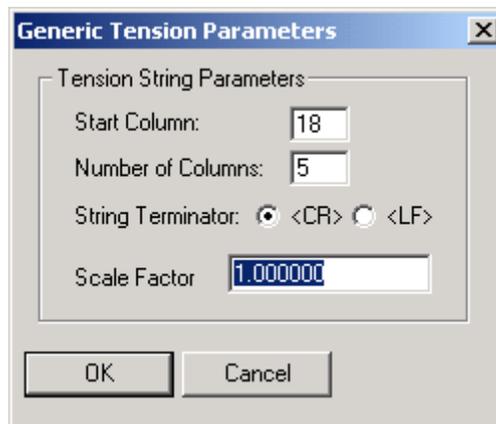
DEVICE CONFIGURATION INSTRUCTIONS

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 Generic Tension Parameters dialog box appears, as seen below.



In this Start Column option enter the column (field) of the data string that contains the tension data. In the Number of Columns option enter the total number of columns (fields) contained in the data string. Specify whether the data string ends with a carriage return (<CR>) or line feed (<LF>). The Scale Factor option allows you to convert the incoming units to the desired units.

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

Adding the Generic Tension device creates the COUNT data item. Once the data item has been added to the vehicle, it must be edited to suit the application.

Data item: COUNTER, Generic Tension, COUNT

Highlighting the COUNTER, Generic Tension, COUNT data item in the vehicle's device list and clicking on Edit opens the Configure Counter dialog box.

This data item configuration dialog has two pages, the Reference Counters page and the Real-Time Navigation Updates page. As this device only reads tension data the Reference Counters page has no application.

Real-Time Navigation Updates Page

The screenshot shows a Windows-style dialog box titled "Configure Counter" with a help icon and a close button in the title bar. It has two tabs: "Reference Counters" and "Real-Time Navigation Updates", with the latter selected. The dialog is organized into several sections:

- Interval:** A text box contains "1.0 s". To its right is the text "Enter Raw Data File Logging Interval in Seconds, 0=All Data".
- Channel 1 (Telephone / Power Cable):** A group box containing three checkboxes: "Cable Count" (unchecked), "Payout Speed" (unchecked), and "Tension" (checked).
- Channel 2 (Tow Cable):** A group box containing three checkboxes: "Cable Count" (unchecked), "Payout Speed" (unchecked), and "Tension" (unchecked).
- Channels 3,4,5 Tension:** A group box containing three checkboxes: "LCE Tension (Channel 3)" (unchecked), "CDE 1 Tension (Channel 4)" (unchecked), and "CDE 2 Tension (Channel 5)" (unchecked).
- General:** A group box containing two checkboxes: "Distance to Event" (unchecked) and "Cable Angle" (unchecked).

At the bottom of the dialog are "OK" and "Cancel" buttons.

This page enables/disables certain data from this device to be passed to the vehicle. Data from the Real-Time Navigation Updates page can be logged to the raw files if this data item is associated with a vehicle. This allows the vehicle to have more than one COUNT without one conflicting with the other. One COUNTER device may provide the telephone cable tension while the other provides the telephone cable count. If a checkbox is selected (checked) the data value will be passed to the vehicle. For example, if the *Cable Count* checkbox is selected in the *Channel 1* section, then the cable count from the input device will be passed to the vehicles channel 1 count.

It is important to note that if the data string from the counter device does not contain certain data types (count, tension or speed), these options should not be selected from this page. Selecting an option for which there is no data in the string causes

WinFrog to assign a zero in the selected field and it may result in valid data from other sources being overwritten with zeroes.

The *Interval* section sets the data logging interval used when the “With Events” Logging Control option is selected (refer to chapter 10 of the WinFrog User’s Guide for more information).