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RVTEC Line Monitoring Equipment Forum

Purpose

Provide a closed forum to discuss line monitoring equipment. The intent was to collect data from the frontline technicians, share problems, solutions, and desired developments. A display board was constructed to show various network types and the interplay between the RV version, standard version, and a 90.

Brands and Products

MTNW

Current
LCI-90i
LCI-80x

Retired
LCI-90
LCI-90r
LCI-80
LCI-100

3PS

SD50
SD50LT
SD50-DAQ

NOV

MD TOTCO

Markload

DX

Rapp-Marine

PTS Pentagon

Auric Solutions

NERC Interface

Scantrol

iSym

Hawboldt

New integrated HMI and display

DIY

HMI and PLC
Discrete Components and Screen

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Issues and Solutions

Garbled Screen

Restart Display

Firmware Update

Configuration Loss

Use the factory setting save feature. Many didn't know what this did, fear of factory resetting the device.

Use the load configuration tool

Send settings to a remote display

Turn on security to prevent unauthorized or accidental changes

Numbers too fast to read

Use the tension smoothing

Graph at 10 hz display at 3 hz

Winch Changes (IE from 1 to 2)

Doesn't typically happen with systems always powered, or systems frequently power cycled. Occurs when a long powered system restarts. No solution offered, other than the installation of an external input to force winch 1.

10 second delay once a day

Culprit: CF card full

Solution: Remove card, delete data regularly

Installation and Communication

Network

Most installations are RS-485 based. Discussed the switching of RS-485 networks. Robust Ethernet communication is desired

Number of Winches

Typically installed as one instrument per display

Use Type

Most installations use one master and one or more slaves per winch

Few installations just as a display, with processing done elsewhere (IE on a PLC)

Firmware

Discussion of latest RV firmware and it's development model.

A desire to know about the latest revisions and the issues that are solved