3 Point Solutions 3PS Network CAN Driver

Information Sheet for Crimson v3.0+

Compatible Devices

3PS devices supporting the 3PS Network Protocol on CAN

Verified Device

Load Sensor (Hardwired) – Device Type 2

General Information

A Red Lion CAN option card (G3CN, XCCN) is mandatory when using the 3PS communications driver.

Device Configuration

In the Communications area in Crimson 3.0+ select the 3 Point Solutions Driver under the Option Card – CAN tree then add a device. Select this device and enter the ID and Device Type of the 3PS target device. Continue adding devices as required for the application.

NOTE: It is recommended to recompile the database when the Device Type is changed after data access configuration has begun. This is accomplished by selecting Recompile Database in the Utilities menu of the File menu in Crimson 3.0+.

V1.10 – A Device Type of "Custom" can now be selected. This new selection allows a user to enter the numerical value associated with the device type. Wireless designation is also available. This selection provides access to all data items. It is the user's responsibility to select the appropriate access.

V1.20 – The Broadcast Message Interval and Transaction Timeout settings are now user configurable and can be adjusted according to the properties of the target device. Additionally, device polling may be decreased as needed by adjusting the Comms Delay setting available in the Advanced Settings group.

Data Access Configuration

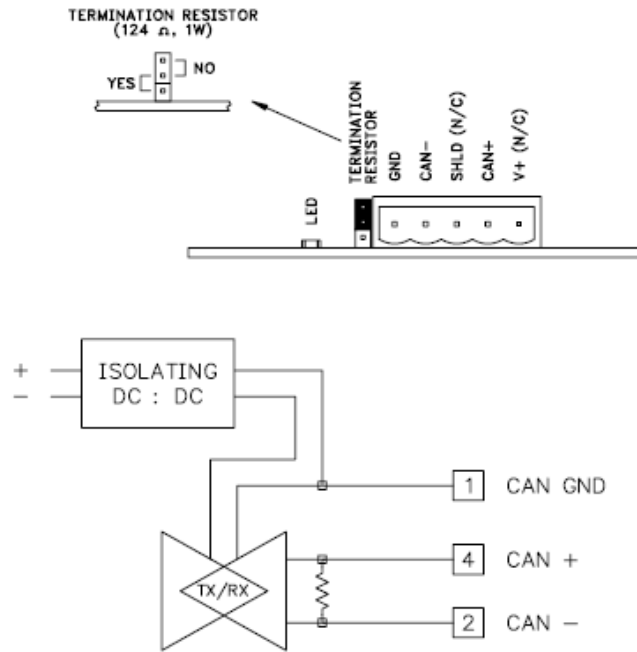Access to the following data is available. The driver reports raw data as it is received from the target device.

Prefix	Description	Access	Supported Devices
STAT	Sensor Status	Read Only	All
BAT	Current Battery Level	Read Only	All
DATA	Device Data***	Read Only	All
REV	Config Revision	Read Only	All
SCAL	Set Shunt Value*	Write Only	Load Sensor
SRAW	Set Raw Data*	Write Only	Load Sensor
CAP	Capacity	Read/Write	Load Sensor
SPAN	Span	Read/Write	Load Sensor
ZERO	Zero	Read/Write	Load Sensor
TARE	Tare	Read/Write	Load Sensor
COLD	Cold	Read/Write	Load Sensor
ROOM	Room	Read/Write	Load Sensor
HOT	Hot	Read/Write	Load Sensor
TP	Temp Point	Read/Write	Load Sensor
FILT	Filter Threshold	Read/Write	Load Sensor
FILC	Filter Constant	Read/Write	Load Sensor
IRLY	Relay Values 1-4 **	Read/Write	Relay Output 4
SRLY	Set Relay Value*	Write Only	Relay Output 4
TXID	TXID	Read/Write	Remote Antenna
SPWR	Set Power Down*	Write Only	Remote Antenna
ZANG	Zero Angle*	Write Only	Single Angle Sensor
RLEN	Reset Length*	Write Only	Boom Length

*   Tags mapped to these parameters should be configured as write only.

**   Internal values sent to sensor upon an SRLY write.

***   Data can be accessed on a bit level by using flag tags and setting the Data Source's "Treat As" field to Bit Array.

Cable Information

Revision History

10/28/13- Created
03/20/14- Added Custom Device Type, Zero Angle, Reset Length.
06/24/14- Added user configurable Broadcast Message Interval and Transaction Timeout.