

1 DESCRIPTION

The Grinnell TFX Minerva driver allows the FieldServer to transfer data from a TFX Fire Alarm System. The FieldServer connects using RS-232 to a TLT-530 with its Third Party Interface protocol. An RS-232 connection must be dedicated to the Grinnell Interface for each TLT-530 interface used (one per separate fire system). Using the Grinnell TFX Driver, the FieldServer should be considered a Server, allowing other clients to read states of other panels as well as generate events to the Grinnell system.

FieldServer Mode	Nodes	Comments
Server	62	The FieldServer can monitor point events from a total of 62 TFX panels.

2 FORMAL DRIVER TYPE

Passive Client

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	Yes
FS-x30	No
FS-x40	Yes
SlotServer	No
ProtoCessor	Yes
ProtoNode	Yes

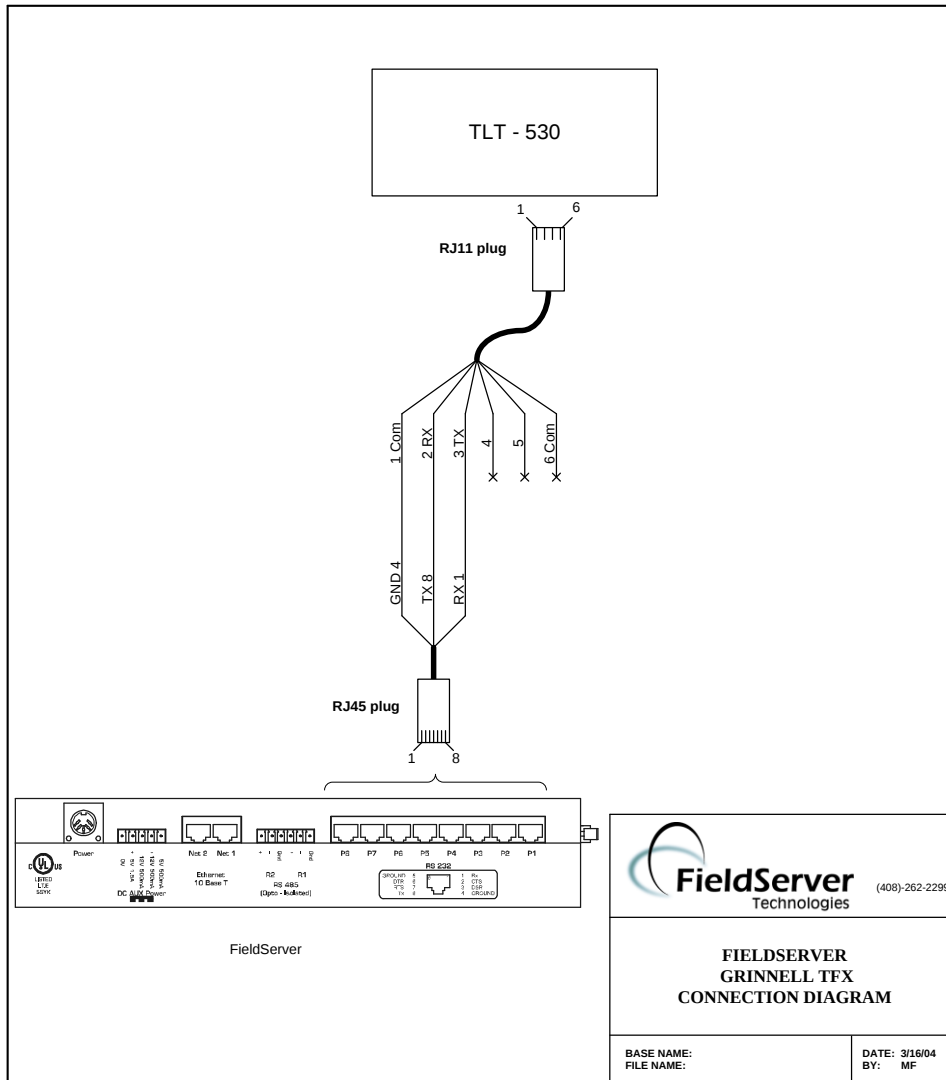
4 CONNECTION INFORMATION

Connection type:	RS-232
Baud Rates:	4800; 9600 (Vendor limitation)
Data Bits:	8 (Vendor limitation)
Stop Bits:	1 (Vendor limitation)
Parity:	None (Vendor limitation)
Multidrop Capability	No

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
TFX 500/800 Fire Alarm Panels	SITE

6 CONNECTION CONFIGURATIONS



6.1 Connection Notes

The FieldServer plugs into a TLT-530 board installed in a TFX 500/800 fire alarm panel.

The FieldServer appears as a Node on the Grinnell Network.

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

Alarm State	Alarm State	Alarm State
Fire Alert	Output Stuck	System Powered Up
Fire Alarm	Fault - Board	Operator Log On
Fire Evac	Fault - Cp Wiring S/C	Operator Log Off
Call Point Alert	Fault - Cp Wiring O/C	Manager Log On
Call Point Evac	Fault - Dm Wiring	Manager Log Off
Full Evacuate	Fault - Psu Wiring O/C	Engineer Log On
Input Active	Fault - Psu Wiring S/C	Engineer Log Off
Loop Failure	Fault - Wiring Fault 1	Clock Cleared
Probation Finished	Fault - Wiring Fault 2	Clock Set
Intruder Alarm	Fault - Lbus	System Silence
Intruder raid	Fault - Rbus	Input On
Intruder 24 Hour	Net Comms Fault	Input Off
Set Timeout	Fault - Rnet	Point Unset
Ground Fault	Fault - Alxm Psu	General Fault Log
Waterflow Alarm	Fault - Battery	Entry Alarm
Fire Drill	Fault - Charger	Intruder Fault
Supervisory Fault	Fault - Aux Charger	Group Active
Enable Sig.Delay	Fault - Mains	Mnau Fault Event
Disable Sig.Delay	Battery Critical	Non-Logging Clear
Medical Alert	Fault - Sounder	Non-Logging Fault
Isolate Warning	Fault - Sounder Line O/C	Saturn Group Isolated
Coincidence Warning	Fault - Sounder Line S/C	Saturn Group Connected
Delay Started	Fault - Sounder Eol	Input Active Alarm
Shunt Special	O/P Control Failure	Input Active (not logged)
Fire Prealarm	Xbus Failure	Group Enable
Alarm Warning	Display Fault	Group Disable
System Isolate	General Fault	Group Deactivate
System De-Isolate	Relay Coil Fault	Group Reset
Part Set	Wiring Short Circuit	Auxiliary Alarm
Tamper	Wiring Open Circuit Fault	Not Set Warning
Tamper O/C	Configuration Fault	Not Set Alarm
Tamper S/C	Addr Loop Noise Warning	Group Purge Delays
Tamper Lo Id	Zone Isolated	24v Too Hi Fault
Tamper Hi Id	Point Isolated	Activation Counter
Tamper No Response	Signalling Isolated	Event Resound
Password; Too Many Tries	Zone Deisolated	Reset Button
Alarm Verifying	Point Deisolated	No Panel Response
Zonal Unset	Signalling Deisolated	Response From UNP
Zonal Set	Data Error 1	Net Module Fault
Premises Unoccupied	Data Error 2	Net Common Fault

Alarm State	Alarm State	Alarm State
Premises Occupied	Data Error 3	Net Port Left Fault
Weekly Test Reminder	Data Error 4	Net Ground Fault
Fire Test Alarm	Data Error 5	Net Data Transfer Fault
Auto Test Alarm	Intruder Shunt Activated	Net Ring Fault
Probation Alarm	Intruder Shunt Off	Net No Panel Supervision
Walk Test Started	Ram Fault	Net Port Right Fault
Test Finished	Checksum Failure	Alarm Clear
Point Tested	Clear	Supervisory Cleared
Noisy Sensor	Clear From Fault	Non Logging Trouble
Fault - No Response	Point Tested 2	Detector Con Low Warning
Fault - Unconf'd Device	Clear Attention Req'd.	Detector Con High Warning
Fault - Hi Id	Vesda Airflow Fault	User Event #1
Fault - Lo Id	Ram Overflow	User Event #2
Fault - Device	Fault Overflow	User Event #3
Fault - Invalid Cond.	Earth Fault	User Event #4
Fault - Lo L.T.A. Cond.	Config. Finished	User Event #5
Fault - Hi L.T.A. Cond.	Config. Failed	User Event #6
Fault - O/C	Printer Offline	User Event #7
Fault - S/C	Printer Online	User Event #8
Fault - A/D Comp.1	Fire Door Closed	User Event #9
Fault - A/D Comp.2	Fire Door Open	User Event #10
Fault - A/D Comp.3	Fire Door Failed	User Event #11
	Set	User Event #12
	Unset	
	Reset	