



FieldServer Driver FS-8701-10 TL1

Description

The TL1 driver allows the FieldServer to control devices and generate alarms as a TL1 Network Element. The control allows digital and analogue inputs to be read and written by the FieldServer. The alarms can generate automatic commands, or the FieldServer can respond to input commands generated by a TL1 Monitoring client. The FieldServer emulates a Server with this driver.

Normally, the FieldServer will look like an Environmental Monitor to the TL1 client. Alarm Types will be chosen from the Environmental Alarm Types specified in the "NE Transport Surveillance Messages" Document (GR-833-CORE). The FieldServer supports multiple target identifiers (TIDs), and multiple access identifiers (AIDs). Both are specified from 1 to 255. This allows the FieldServer to report multiple (255) different alarms of each type such as AIRCOMPR or FIRE or POWER.

The driver may be used as a Serial driver, but it can be combined with the Telnet driver to be tunneled over Ethernet using a TCP connection.

Fieldserver Mode	Nodes	Comments
Client	-	Not applicable
Server	256	

Formal Driver Type

Ethernet/Serial
Server Only

Connection Information

Connection type: RS-232 / Ethernet (tunnel over TCP using Telnet driver)
Baud Rates: 110; 300; 600; 1200; 2400; 4800; 9600; **19200**; 28800; 38400;
57600; 115200 Baud
Data Bits: 7
Stop Bits: 1
Parity: None
Multidrop Capability No

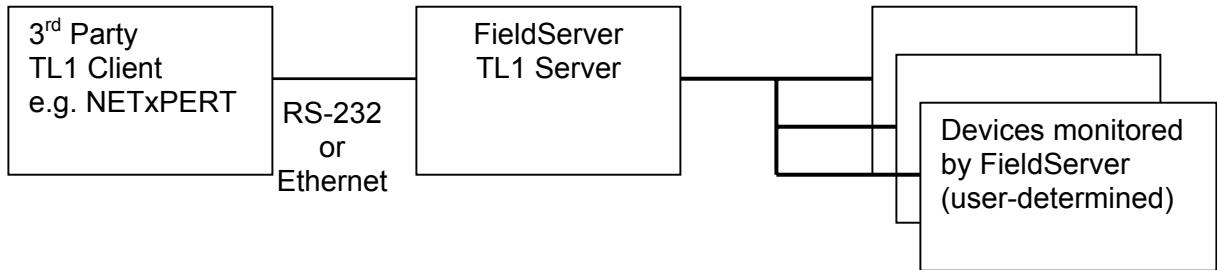


Devices tested

Device	Tested (FACTORY, SITE)
NETxPERT	SITE

Connection configurations

Serial/Ethernet Configuration



Connection Notes

Note that the Ethernet option requires the FieldServer Telnet driver (FS8704-11) to be purchased in addition to the TL1 driver.



Communications functions

Supported functions at a glance:

Operations supported

FieldServer as a Client	FieldServer as a Server
Message Allow Commands	not applicable
ALW-MSG-ALL	
ALW-MSG-COM	
ALW-MSG-ENV	
ALW-MSG-EQPT	
Message Inhibit Commands	
INH-MSG-ALL	
INH-MSG-COM	
INH-MSG-ENV	
INH-MSG-EQPT	
Alarm State Retrieval	
RTRV-ALM-ENV	
RTRV-ATTR-ENV	
Alarm Message Control	
SET-ATTR-ENV	
Session Control	
ACT-USER	
CANC-USER	
Discrete Control	
OPR-EXT-CONT	
RLS-EXT-CONT	
RTRV-EXT-CONT	
Analog Control	
RTRV-EXT-ANLG	
SET-EXT-ANLG	

Revision History

Date	Driver Version	Document Revision	Resp	Comment
4/24/03	1.00c	0	JCE	Created
7/23/03	1.00	1	JD	Releasing



Protocol Driver



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