



FieldServer Driver FS-8700-39 EST3 ECP

Description

The EST3 External Communications Protocol (ECP) driver allows the FieldServer to transfer data to and from EST devices over RS-232 or RS-485 serial port using the EST3 ECP protocol. Normally the Bridge can emulate either a Server or Client; in the EST application it always emulates a Client. Gateway Type II and Type III formats are supported.

Note: FieldServer also offers a **Remote Serial Port** option by which a PC-based EST3 ECP client (e.g. Fireworks) can remotely access a Gateway Type III panel via Ethernet (TCP/IP).

Fieldserver Mode	Nodes	Comments
Client	1	Each FieldServer port can connect to only 1 EST3 panel
Server	0	The EST3 ECP driver cannot be used as a Server

Formal Driver Type

Serial
Client Only

Connection Information

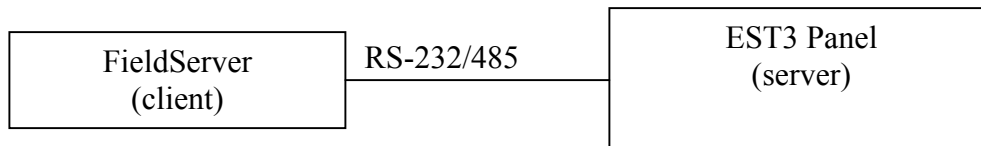
Connection type: RS-232, RS-485
Baud Rates: 9600; 19200 (as determined by EST3 panel)
Data Bits: 8
Stop Bits: 1
Parity: None
Multidrop Capability: Yes

Devices tested

Device	Tested (FACTORY, SITE)
EST3 panel	Factory



Connection configurations



Communications functions

Supported functions at a glance:

Data Types and Commands Supported

The following commands may be sent using the **EST3 Command Service**.

EST3 Object Type	EST3 Commands
Relay	Activate, Restore, Enable, Disable
Led	Activate, Restore, Enable, Disable
ServGroup	Activate, Restore, Enable, Disable
GuardPtrl	Activate, Restore, Enable, Disable
ChkInGrp	Activate, Restore, Enable, Disable
AltMessage	Activate, Restore
AmpPower	Activate, Restore, Enable, Disable
AudMsg	Activate, Restore
Reset	Activate, Restore
PanelSil	Activate, Restore
AlarmSil	Activate, Restore
Drill	Activate, Restore
GAInhibit	Activate, Restore
Reboot	Activate, Restore
Evacuate	Activate, Restore
AltSensitiv	Activate, Restore
MCmsg	Activate, Restore
Partition	Activate, Restore, Enable, Disable
Cmd List	Activate, Restore
Input	Enable, Disable
Zone	Enable, Disable
Card	Enable, Disable
AndGroup	Enable, Disable
Matrix	Enable, Disable
TimeCtrl	Enable, Disable
Instruction Text	Enable, Disable



Read Operations supported

The EST3 ECP driver makes use of the **Report Service** to read the current state of EST3 points. It also updates the current state if **Delta Service** reports are received, which are unsolicited broadcasts initiated by the EST3 panel when a point changes.

FieldServer as a Client	FieldServer as a Server
EST3 Report Service (polled) all panel points	not applicable
EST3 Delta Service (unsolicited) all panel points	

Unsupported Functions and Data Types

EST3 Command	Reason
Stay	not required to date
Conditional Away	not required to date
Conditional Stay	not required to date
Update Status	not required to date
Remove Bypass	not required to date
Bypass	not required to date

EST3 Service	Reason
Panel State Service	not required to date
Date/Time Service	not required to date
Protocol Encapsulation Service	not required to date
Access Event Service	not required to date
Partition Reset Service	not required to date
Command Logging Service	not required to date

Unsupported Devices or Protocol Options

Device	Details
not applicable	not applicable



Revision History

Date	Driver Version	Document Revision	Resp	Comment
3/31/03	1.00i	1	JCE	Rewrite data sheet post SPR2252 (delta service)
7/23/03	1.00i	2	JD	Releasing