

## **FieldServer Protocol Driver Sheet**

## **EST3 ECP**

FS-8700-39 Version: 1.13 / Rev. 0

## 1 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 (with converter) serial ports using the EST3 ECP protocol. In the EST application the FieldServer always emulates a Client. Gateway Type II and Type III formats are supported.

The FieldServer makes use of the following ECP Services:

#### **Read Operations:**

- Report Service
- Delta Service

#### Write Operations:

Command Service

All read points are continually updated using the Report Service; response times are enhanced using Delta Service broadcasts by the EST3 panel.

### 1.1 Connection Facts

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

## 2 FORMAL DRIVER TYPE

Serial

Client Only

## **3 COMPATIBILITY MATRIX**

FieldServer Model	Compatible with this driver
FS-x30	Yes
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-ED2	No
ProtoCessor FPC-ED4	Yes

## 4 CONNECTION INFORMATION

Connection type: RS-232 or RS-485

Baud Rates: 9600; 19200 (as determined

by EST3 panel)

Data Bits: 8
Stop Bits: 1
Parity: None
Multidrop Capability: Yes

## 5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
EST3 panel	Factory

# 6 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

## 6.1 Data Types Supported

The following commands may be send 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	
Set Time	Activate, Restore	
Set Date	Activate, Restore	
Reboot	Activate, Restore	
Evacuate	Activate, Restore	
AltSensitiv	Activate, Restore	
MCmsg	Activate, Restore, Enable, Disable	
CmdList	Activate, Restore, Enable, Disable	
Input	Enable, Disable	
Zone	Enable, Disable	
Card	Enable, Disable	



## **FieldServer Protocol Driver Sheet**

## **EST3 ECP**

FS-8700-39 Version: 1.13 / Rev. 0

EST3 Object	EST3 Commands	
Туре	Lo 10 commands	
AndGroup	Activate, Restore, Enable, Disable	
Matrix	Enable, Disable	
TimeCtrl	Enable, Disable	
InstructionText	Enable, Disable	
ClrPartitionEvent	Activate, Restore	
DeviceTest	Activate, Restore	
SysFunction1	Activate, Restore	
SysFunction2	Activate, Restore	
SysFunction3	Activate, Restore	
SysFunction4	Activate, Restore	
CalibrateAnalog	Activate, Restore	
2StageSounder	Activate, Restore, Enable, Disable	
SensorByPass	Activate, Restore	
GasAccelerated	Activate, Restore	
Response	Activate, Restore	
RemoteReadLock	Activate, Restore	
RemoteWrite	Activate, Restore	
Unlock		
LogicalOutput	Activate, Restore, Enable, Disable	
LampTest2	Activate, Restore	
Partition	Away, Disarm	

## FieldServer as a Client

## EST3 Report Service (polled)

All panel points IO Status

Status values are able to be decoded and stored as Alarm, Trouble, Supervisory, Monitor or as Others. It is now possible to configure the category that an event is placed in.

The Driver can be configured to provide Relay confirmation status.

The Driver can be configured to provide the acknowledge state of a point and can acknowledge it.

## Sensitivity Report:

The Driver can be configured to store dirtiness as value\*10 for system sensor devices and the actual value for other devices (The Panel sends % values for other devices).

#### EST3 Delta Service (unsolicited)

#### All panel points

Delta message status values are optionally decoded and stored as Alarm, Trouble, Supervisory, Monitor or as Others.

## EST3 Date and Time Service

The FieldServer can be configured to synchronize its clock with Panel or the FieldServer can set the Panel's clock

## 6.2 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.

## 7 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
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