FieldServer
Technologies

FieldServer Driver - Serial
FS-8700-09
Notifier 1010/2020

Description

Due to the nature of the Notifier drivers and the adaptability of the FieldServer, configuration of the Notifier side of the FieldServer is straight forward. The Notifier driver will always function as a Client driver, thus the primary purpose is for the Notifier Fire Alarm Panel to write information to the FieldServer to be passed on to another device. Three pre-configured Data Arrays are provided with this driver. The FieldServer automatically assigns the device internal Node ID of station 257. .

The driver is capable of parsing and storing zone alarm and trouble states. They are latched and cleared when a Network System Reset is received.

The **Status Bits** are the data strings coming from Notifier to set or clear any one of 8209 bits of information in the following order:

Parameter	Bits
Detector Alarms	0 – 1023
Detector Alarms Unacknowledged	1024 – 2047
Module Alarms	2048 – 3071
Module Alarms Unacknowledged	3071 – 4095
Detector Trouble	4096 – 5119
Detector Trouble Unacknowledged	5120 – 6143
Module Trouble	6144 – 7167
Module Trouble Unacknowledged	7168 – 8191
Common Bits	8192 – 8207
Control Bits	8208 -- 8209
Reserved for future use.	8210 -- 8299
Zone Alarms	8220 –- 8499
Zone Troubles	8500 -- 8699
'Level' Alarms	8800 -- 9099
'Level' Troubles	9100 -- 9399

The **Control Bits** are as follows:

Parameter	Bit
Ack/Step	8208
System Reset	8209

The **TAC-Americas heartbeat** bit:

Parameter	Bit
TAC-Americas Heartbeat	8210

The **Common Bits** are as follows:

Parameter	Bit
Detector Alarms	8192
Detector Alarms Unacknowledged	8193
Module Alarms	8194
Module Alarms Unacknowledged	8195
Detector Trouble	8196
Detector Trouble Unacknowledged	8197
Module Trouble	8198
Module Trouble Unacknowledged	8199
Alarms	8200
Alarms Unacknowledged	8201
Trouble	8202
Trouble Unacknowledged	8203
Supervise Sent	8204
Ignored Message	8205
All Systems Normal	8206
ESC X NUL	8207

The Notifier supports the following Alarm States:

Alarm States		
"ACK AL"	"ACK TB"	"ACTIVE"
"CLR AL"	"CLR TB"	"CLEAR"
"ACL AL"	"ACL TB"	"SUPERV"
"TROUBL"		"ALARM:"

The Notifier supports the following Detectors:

Detectors	
"FIXED PHOTO D"	"SMOKE ION HP"
"FIXED THER D"	"SMOKE ION LP"
"HEAT (ANALOG)"	"SMOKE (COMBO)"
"ION DUCT DET"	"SMOKE (PHOTO)"
"SMOKE (ION)"	

Text_Regs - This is the text string coming from Notifier that matches the information on the display of the 1010 or 2020 and contains two sets 400 16-bit registers which is equivalent to 10 lines by 80 characters for each set.

Supervise – This is a 2-character string from Notifier providing a "supervise" signal to the Notifier Fire Alarm Panel when hot standby is alive. It also appears to the Client as 2 single coil if it is being sent.

FieldServer's with the Notifier driver installed already have the Data Array configured and are ready to use with the 1010 or 2020. The user only needs to configure the Server side of the FieldServer, the interface to the non-Notifier device.

Level Status – 'Level' Alarms are only set when 'ALARM' messages are received. 'ACTIVE' messages are treated as troubles for the purpose of 'Level' status.

Should you use the Notifier INA driver (FS-8700-25) or the Notifier 1010/2020 Driver (FS-8700-09)?

Use the FS-8700-25 driver if your FieldServer is connected to an INA device and in turn, the Notifier field panels are connected to the INA which serves as a gateway. One INA panel can be connected to each FieldServer port.

Use the FS-8700-09 driver if your FieldServer is connected directly to a 1010 or 2020 panel. One panel can be connected to each FieldServer port.

Revision History

Date	Driver Version	Document Revision	Resp	Comment
6/18/03	1.06	2	RJC	Added tables with Alarm states and Detectors
7/16/03	1.06	3	MF	Formatted document.
8/14/03	1.06	4	JD	Releasing