



FieldServer Driver - Serial FS-8700-90 Notifier NFS-640

Driver Code:	
Version:	
Devices Supported:	Notifier Onyx Series NFS-640 Intelligent Addressable Fire Alarm Systems
Interface:	RS-232 utilizing Notifier Fire Alarm Panel Connector adapter
Baud:	9600
Parity:	1 parity bit
Data Bits:	8 data bits
Handshaking:	None
Start Bits:	1 start bit
Stop Bits:	1 stop bit

The NFS-640 Serial driver allows the FieldServer to transfer data from Notifier Onyx Series NFS-640 Fire Panels over RS232 or RS485. The FieldServer acts as a Passive Client receiving messages and updating the status of a Notifier Fire Alarm Panel.

The main purpose of this driver is to record the status of Fire Alarm System detectors and Modules in a bit oriented data array. It is primarily limited by the information that the Notifier NFS-640 unit broadcasts in the form of text messages through it's RS232 communications ports. The accuracy and timeliness of the data is therefore limited by the frequency of update messages that the Notifier Fire Panel issues. The types of devices and information supported by this driver are described below. The device status mapping to the data array is also shown below.

This driver is connection oriented. Only one Notifier Panel may be connected to any single RS232 or RS485 port on the Fieldserver.



Device Types Supported

Detectors

- Alarms
- Troubles
- Pre-Alarms (pending clarifications)
- Read point status

Modules

- Alarms
- Troubles
- Active Security Code (pending clarifications)
- Active Supervisory Code (pending clarifications)
- Active Non-alarm Code (pending clarifications)
- Read point status

Zones

- Software, Special, and releasing Zone status: on/off//alarm (pending clarifications)

System Trouble

Panel Status Data Array Mapping

Parameter	Bits
Detector Alarm	0-317
Module Alarm	318-635
Detector Trouble	636-953
Module Trouble	954-1271
Panel Circuit Trouble	1272-1352
Bell Circuit Trouble	1353-1357
Active Monitor Module	1358-1675
Detector Pre-Alarm	1676-1993
On/Off status Module	1994-2311
On/Off status Bell Circuit	2312-2315
On/Off status Panel Circuit	2316-2379
On/Off status software Zone	2380-2478
On/Off status special Zone	2479-2488
On/Off status releasing Zone	2489-2498
software Zone Alarm	2499-2597
special Zone Alarm	2598-2607
releasing Zone Alarm	2608-2617
system trouble	2618-2717

* note: the addressing above is preliminary and only representative of the final product