

Fike Cheetah

Doc. No.

Ver: 1.1

FS-8700-48

Rev: 4

L DESCRIPTION

The Cheetah Protocol driver allows the FieldServer to transfer data to and from devices over either RS-232 or RS-485 using the Cheetah device protocols (Legacy Cheetah Classic and the current Cheetah Xi).

The driver supports messages sent from the Cybercat panel. Specifically, the driver supports message 1.02 which reports panel, zone and device states.

The FieldServer can emulate either a Server or Client but it should be noted that it can only process unsolicited messages from the Cheetah devices. Thus, it does not provide an active Client driver. It is best to consider this driver as a consumer only driver with the data being produced by a Cheetah controller.

Fieldserver Mode	Nodes	Comments
Client	1	Only one node per port.

2 FORMAL DRIVER TYPE

Fieldbus

Passive Client

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	No
FS-x30	Yes
FS-x40	Yes
SlotServer	No
ProtoNode	No
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
ProtoCessor FPC-FO2	No
ProtoCessor FPC-FD2	No

4 CONNECTION INFORMATION

Connection type: RS-232 or RS-485 (Two wire,

Half-Duplex)

Baud Rates: 9600 (Vendor limitation)
Data Bits: 8 (Vendor limitation)
Stop Bits: 1 (Vendor limitation)
Parity: None (Vendor limitation)

Multidrop Capability: No

5 **DEVICES TESTED**

Device	Tested (FACTORY, SITE)
Cybercat Panel	Factory
Cheetah Panels	Site
Fike Multi-Interface Module (MIM)	Site

6 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

6.1 Data Types Supported

The driver does not transfer typed data.

6.2 Passive Client Operations supported

FieldServer as a Passive Client		
Graphics command (also known as command 6.0)		
Command #1.0: send panel status - cheetah/evax		
Command #1.2: send panel status - cyber-cat		

6.3 Write (Control) Operations supported

FieldServer as a Passive Client	
Acknowledgements are supported in a limited way.	



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6.4 Unsupported Functions and Data Types

The following list is a partial list of unsupported functions.

Function	Reason
Command #2.1: send history event -	
cyber cat	
Command #3.1: panel switch	
command - reset	
Command #3.2: panel switch	
command - acknowledge	
Command #3.3: panel switch	
command - silence	
Command #3.4: panel switch	
command - walktest	
Command #3.5: panel switch	
command - drill	
Command #3.16: panel switch	
command - process state de-	FieldServer is a
activated in zone <d0></d0>	data transfer
Command #3.17: panel switch	device,
command - process state activated	and as such,
in zone <d0></d0>	programming
Command #3.33: panel switch	messages are
command - turn off peripheral	not required
transmissions	
Command #3.34: panel switch	
command - restart peripheral	
transmissions	
Command #3.60: panel switch	
command - enable/disable ir	
communications	
Command #3.61: panel switch	
command - fan restart	
Command #7.4: panel requests	
status update from peripheral device	
Command #7.5: peripheral device	
response to to command #7.4	

6.5 Functions Described

All three supported commands report zone and device states for multiple loops. Some panel status information is provided in the message and stored by the driver. Details are available in the manual.

FIRMWARE LIMITATIONS & CAPABILITIES

7.1 Fike Cheetah Panel

The following limitations to older firmware have been identified. FieldServer is unable to correlate this change with a particular Fike firmware version number at the current time.

Messages 1.1 and 6.0 (graphics update msg) are sent by older panels. Only message 6.0 contains information that can be used by the driver to reflect zone and device states. The 6.0 message is sent infrequently (typically 1 in 60 messages) and this results in a zone/device state update every few minutes.

7.1.1 Message 6.0 limitations

- Can only report data for 127 zones. Data is limited to Alarm, Trouble, Pre-Discharge and Released states
- Can only report data for 127 devices on loops 1-4.
 Data is limited to Alarm, Trouble states.
- Message 1.1 Older firmware
- No useful information about zones or devices.

7.1.2 Message 1.1 - Newer Firmware

- Supports zones 1-240. For zones the following states are reported: Abort, Trouble, Supervisory, Disabled, Pre-alarm, Alarm, Pre-Discharge, Released, Processed.
- Supports devices 1-127 on loops 1-4. For devices the following states are reported: Alarm, Pre-Alarm and Trouble

7.2 Fike XI Panel

The XI panels send messages which contain zone and device data. The message is known by Fike as a '1.2' message.

The message reports if a device is normal, alarm, trouble or in a pre-discharge state. 256 Devices on loops 1-4 are reported. 255 Zones report Process, Trouble, Supervisory, Disable, Pre-Alarm, Alarm states.