Gamewell-FCI 7200

Description

The FCI 7200 Series System Control Units (SCU's) are manufactured by Fire Control Instruments. A SCU with an enabled serial port can transmit data to a FieldServer which can, in turn, make the data available to other devices including those which communicate using different protocols (e.g. BACnet).

This passive Client driver does not poll for data, nor does it send data or commands to the SCU. Messages received from the SCU are ignored or stored on the FieldServer depending on the status of the panel. The method of message processing and location on the FieldServer is determined in the FieldServer configuration file. Once stored in the FieldServer the data is available to be read or written using other protocols.

No automatic panel data synchronization technique exists. The data in the FieldServer and the panel status have to be synchronized manually. This typically requires a panel reset.

Since the driver cannot send data or commands to the SCU it cannot be used to acknowledge, silence or reset alarms and other events.

The driver can process the single line messages sent from SCU firmware versions earlier than 2.20 and 3 line messages produced in firmware versions 2.20 and later. Processing of 3 line messages requires the 20 character System ID label to be defined.

The driver provides both Client and Server emulation. The Server side of the driver is intended to support FieldServer's Quality Assurance program and is not intended to provide complete emulation of a SCU and is thus not fully documented. If the Server side functionality must be documented and enhanced, please contact the Sierra Monitor sales group.

NOTE: RDU devices are NOT supported.

Connection Facts

FieldServer Mode	Nodes	Comments
Client	1	1 Node per serial port.
Server	1	1 Node per serial port.

Formal Driver Type

Serial, Passive Client

Compatibility

FieldServer Model	Compatible	FieldServer Model	Compatible
ProtoCessor	No	QuickServer FS-QS-10xx	No
ProtoCarrier	No	QuickServer FS-QS-12xx	Yes
ProtoNode	No	QuickServer FS-QS-20xx	Yes
ProtoAir	No	QuickServer FS-QS-22xx	Yes
		QuickServer FS-QS-3x10-F	Yes

Connection Information

Connection Type: RS-232

Baud Rates: 1200 (Vendor Limitation)

Data Bits: 8 (Vendor Limitation)

Stop Bits: 1 (Vendor Limitation)

Parity: None (Vendor Limitation)

Multidrop Capability: No

Devices Tested

Device	Tested (Factory, Site)
FCI 7200 Series	Site (FCI Distributor)

Communication Functions

Supported Functions Described

The driver listens passively for messages from the SCU serial interface. The driver assumes that each message relates either to the SCU or a single point.

A point is considered to be a zone, relay output, loop, ALU sensor or ALU Module.

If the driver has not been configured to store data for particular points, then messages containing status information for those points will be ignored.

The driver may be configured store data in any combination of the following. Multiple methods may be used for each point.

- Store the type of event (by storing an index number – Zero for restore).

- Store a '1' when an event occurs and a zero when an event is restored.

- Recognize only specified events for a point, e.g. Configure driver to store alarm events for point L1M03 at one location and store trouble events at others. The selection is limited to Alarm, Fault, Trouble. All other events are captured as 'Other'.

New event types can be added to the driver using the configuration file. This feature may allow the driver to capture new events when the FCI panel firmware is updated to generate new event types.

Panel Synchronization

Manual synchronization is required. Push the reset button on the panel. This transmits a reset message to the FieldServer, which clears the data in the FieldServer. After a reset the panel sends messages to report all abnormal states. When all these messages have been processed the FieldServer and panel will be synchronized. This process can be repeated at any time.

Unsupported Devices or Protocol Options

Item	Details
Event Date and time, Device Type Identifier (Signal Ckt 1, Municipal Circuit, etc.), Unit Identifier (7100, QZU, etc.), User define Label	This data is discarded.
RTU Devices	