

1 DESCRIPTION

The Canatal Satchnet protocol driver allows the FieldServer to transfer data to and from devices over either RS-232 or RS-485 using Canatal Satchnet protocol driver protocol. The FieldServer can emulate either a Server or Client.

This driver provides support for the Canatal International implementation of the “Satchwell Network (Full) and Net2 (Reduced)” protocol.

The Canatal Satchnet protocol driver can act as a Satchnet Master.

- Any Satchnet device on any serial port (P1-P8, R1-R2¹) can be polled.
- Data from Series 2, 4, 5, 6,8, 9 devices can be polled.
- Data from any 'Table' can be read.
- Data in 'Tables' with “write permission” can be written to by the driver.
- The driver can read/write Bit, Byte, Word, BCD and Float Data.

The Canatal Satchnet protocol driver can act as a (passive) Server.

- The driver can be polled by a Satchnet Master and return data from the FieldServer's data arrays.
- The driver can emulate Series 2,4,5,6,8,9 devices.
- All “Tables” can be read/written in accordance with their read/write capability.

1.1 Connection Facts

FieldServer Mode	Nodes	Comments
Client	63	Expansion above 32 nodes normally requires a repeater
Server	63	Expansion above 32 nodes normally requires a repeater

2 FORMAL DRIVER TYPE

Serial
Client or Server

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-B35	Yes
SlotServer	Yes
ProtoNode	Yes
ProtoCessor FPC-ED2	Yes
ProtoCessor FPC-ED4	Yes
QuickServer FS-QS-1XXX	Yes

4 CONNECTION INFORMATION

Connection Type: RS-232 or RS-485 (two wire, half-duplex)
 Baud Rates: 2400; 4800; 9600 (vendor limitation)
 Data Bits: 7 (vendor limitation)
 Stop Bits: 1 (vendor limitation)
 Parity: Even (vendor limitation)
 Multidrop Capability: Yes

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Canatal Series 9	Factory
Canatal Series 6,8	Site

¹ Not all ports shown are necessarily supported by the hardware. Consult the appropriate Instruction manual for details of the ports available on specific hardware.

6 COMMUNICATION FUNCTIONS

6.1 Supported Read Operations

FieldServer as a Client	FieldServer as a Server
Read all tables for Series 2, 4, 5, 6,8, 9	Provide data from all tables for 2, 4, 5, 6, 8, 9 series

6.2 Supported Write (Control) Operations

FieldServer as a Client	FieldServer as a Server
Write data in tables with write permission	Store data in tables with write permission