

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-P2, 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 Not all ports shown are necessarily supported by the hardware. Consult the appropriate Instruction manual for details of the ports available on specific hardware.

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

FieldServer Model	Compatible
FS-B35 Series	Yes
ProtoNode/ProtoAir	Yes
QuickServer FS-QS-10xx	No
QuickServer FS-QS-12xx	Yes
QuickServer FS-QS-20xx	No
QuickServer FS-QS-22xx	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

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