1 DESCRIPTION

The Hanning & Kahl HCS-R driver allows the transfer of data from devices over RS-232 HCS-R protocol. Data is read from HCS-R and current data stored in a specified memory area. The driver can store the data with its loop data status in distinct memory areas depending on whether the data is on loop or from loop. The driver is based on section 10.5 of Hanning & Kahl - part number 40801121. The FieldServer can act as a Client or Server.

FieldServer Mode	Nodes	Comments
Client	1	Only 1 virtual client per port allowed on multidrop systems,
Server	1	This is a protocol limitation

2 FORMAL DRIVER TYPE

Serial
Client or Server

3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FSx25	Yes
FS-x30	Yes
FS-x40	Yes
SlotServer	Yes
ProtoCessor FPC-FO2	No
ProtoNode	Yes
ProtoCessor FPC-FD2	Yes
QuickServer FS-QS-1010	Yes
QuickServer FS-QS-1011	No

4 CONNECTION INFORMATION

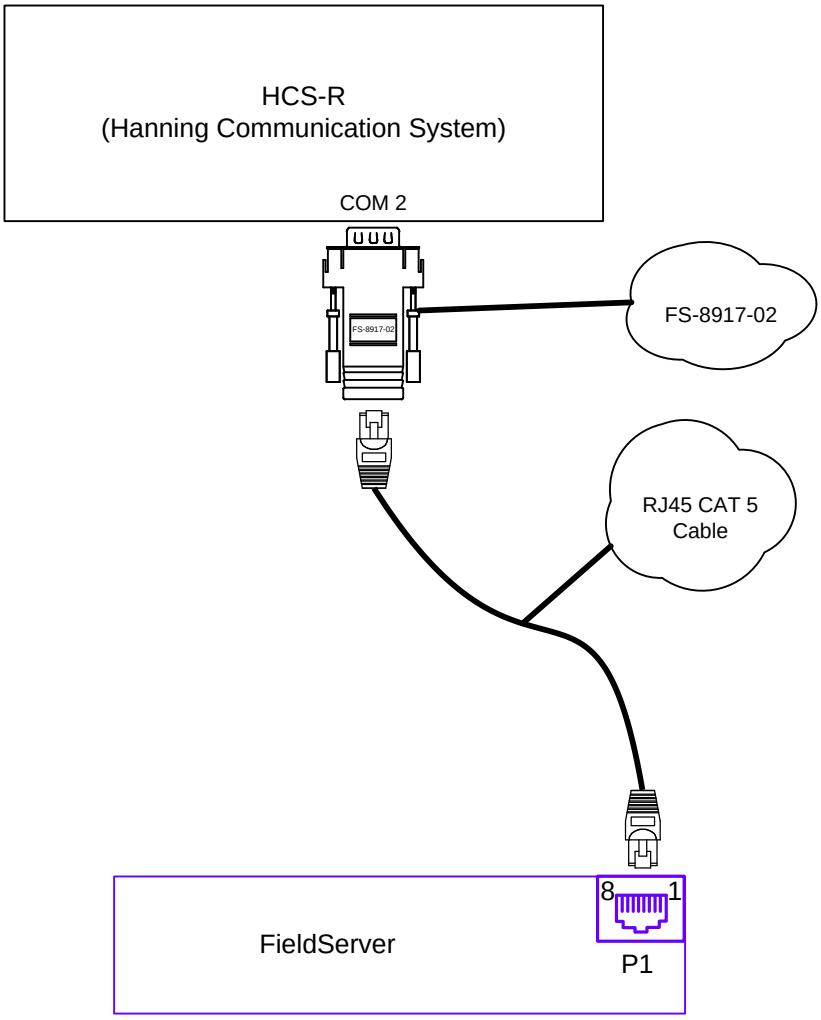
Connection type:	RS-232
Baud Rates*	9600 (Vendor limitation)
Data Bits*	8 (Vendor limitation)
Stop Bits:*	1 (Vendor limitation)
Parity:*	None (Vendor limitation)
Multidrop Capability*	Yes

5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
HCS-R-R" - part # "44.745.033	Site

6 CONNECTION CONFIGURATIONS

The FieldServer is connected to the Hanning & Kahl HCS-R as shown in connection drawing.
Configure the HCS-R according to manufacturer's instructions



FS-8917-02 Pinouts

FS Function	RJ45 Pin#	DB9F Pin#	Color
RX	1	3	White
GND	4	5	Green
TX	8	2	Blue

6.1 Hardware Connection Tips / Hints

- Loop back RTS CTS if it is required by the other device.

7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

7.1 Data Types Supported

FieldServer Data Type	Description (or Device Data Type)
Digital Input	Data bits
	Loop number and loop Status

7.2 Read Operations supported

FieldServer as a Client	FieldServer as a Server
Poll (including Sync and Acknowledge)	Response along with loop number and status