



Driver Version: 1.00
Document Revision: 3

FieldServer Driver - Serial FS-8700-61 ADC Heatless Communication

Description:

The Serial ADC Heatless Communication driver allows the Communications FieldServer to transfer data to and from devices over either RS-232 or RS-485 using ADC Heatless Communication protocol. The FieldServer can emulate either a Server or Client.

The Server and Client drivers function according to the following specification:
ADC Heatless Communication TECH-NOTE, Doc no. #1251814, Rev. C.

The Client driver implements the following functionality:

- Polls for Clocks and Counters data.
- Polls for Configuration data.
- Polls for Inputs data.
- Polls for Status data.
- Polls for Tests data.

The Server driver implements the following functionality:

- Provides Clocks and Counters data.
- Provides Configuration data.
- Provides Inputs data.
- Provides Status data.
- Provides Tests data.

The drivers work on a byte for byte protocol. All data poll commands and responses to poll commands are one byte each.

The Server driver implements a response buffer according to the ADC specification. If a response is more than one byte long, the Client polls for the rest of the bytes with special buffer request poll commands. Each poll is still one byte long and produces a one byte reply from the Server driver.

Fieldserver Mode	Nodes	Comments
Client		
Server		

Formal Driver Type

Serial
Client or Server



Compatibility Matrix

FieldServer Model	Compatible with this driver
FS-x2010	Yes
FS-x2011	Yes
FS-x30	No
FS-x40	Yes

Connection Information

Connection type: RS-232, RS-485 (2-wire, Half Duplex)
Baud Rates: 300; 1200; **2400** (Vendor limitation)
Data Bits: **8**
Stop Bits: **1**
Parity: **None**
Multidrop Capability No



Connection configurations

Configure the ADC controller according to manufacturer's instructions. The serial port on the ADC controller is labeled P1 and is located on the base-board of the controller.

