

### 1 DESCRIPTION

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

The client driver implements the following functionality:

1. Polls for Clocks and Counters data.
2. Polls for Configuration data
3. Polls for Inputs data
4. Polls for Status data
5. Polls for Tests Data

The server driver implements the following functionality:

1. Provides Clocks and Counters data.
2. Provides Configuration data
3. Provides Inputs data
4. Provides Status data
5. Provides Tests data

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

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.

### 2 CONNECTION INFORMATION

Connection type:	RS-232
Port:	P1-P8 (FS- B40 series), Serial port on FS-B20 Series
Baud Rates:	300; 1200; 2400
Data Bits:	8
Stop Bits:	1
Parity:	None