

Figure 1: Wiring the XFC to the WellTell-X Host

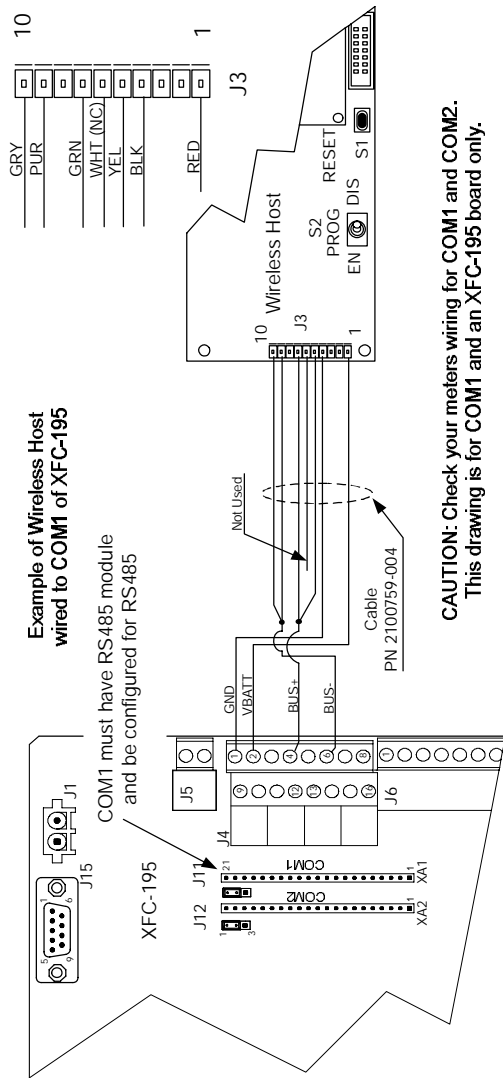


Figure 2: Pinouts for WellTell IO

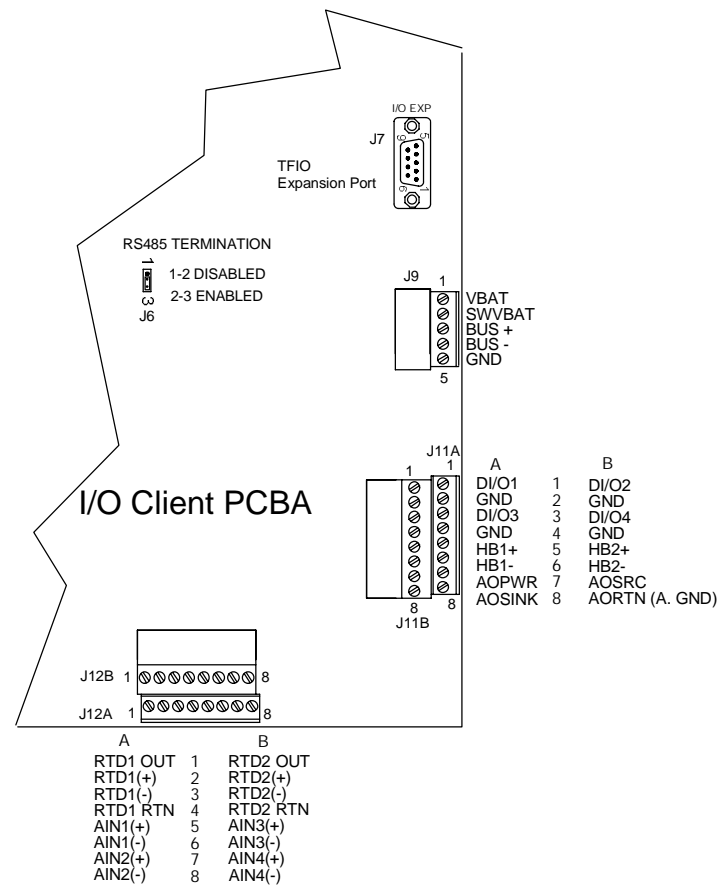


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WellTell Wireless IO Quick Start Guide



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WellTell Wireless I/O Quick Start Guide

WellTell-X Host Communication Wiring



IMPORTANT NOTE: If the unit came pre-configured from the factory, skip the following wiring instructions.

In the following example, an XFC-195 board is the parent meter. For other applications, see the meter pinouts for each device before proceeding.

Also, the following examples use COM 1 of the XFC. COM 1 is often defaulted for communication with a remote device (radio, modem, etc.). Wiring uses a pre-wired cable designed specifically for the WellTell-X device. Perform field wiring using [Figure 1](#), on the back.

Configure COM 1 for the Wireless I/O Application

After completing the electrical wiring for the WellTell-X to COM 1 of the flow computer, configure the COM 1 communication port.



IMPORTANT NOTE: In [Figure 1](#), COM 1 (XA1) must have an RS-485 module inserted.

1. In PCCU, select the Application tab within the Station ID at the top of the tree-view. Then instantiate the Wireless Remote I/O application in slot 56.
2. Select Communications in the tree-view (see [Figure 3](#)). Set the TF Remote-COM 1 to NONE and the Wireless I/O Interface to COM1:. Click Send and then click Re-read.

Figure 3: Communication port

Port Name	Port	Dir
1.3.3 Totalflow - TCP	9999	Dir = \Comm-1
2.3.3 Totalflow - USB	USB1:	Dir = \Comm-2
3.3.3 MMI Serial - COM0	COM0:	Dir = \Comm-3
4.3.3 TF Remote - COM1	NONE	Dir = \Comm-4
5.3.3 Spare - COM2	None	Dir = \Comm-5
12.3.3 Wireless I/O Interface	COM1:	Dir = \WLIO-1
51.3.3 LevelMaster	COM2:	Dir = \Level-1

3. Select the Setup tab under the Communications sub-menu within the Wireless I/O Interface application in the tree-view (see [Figure 4](#)). Change the Protocol to Modbus Host (RTU) and change the Interface to RS485. Click Send.

Figure 4: Wireless I/O Interface Communications Setup

Description	Value
0.4.13 Device/APP ID	Wireless I/O Interface
12.255.0 Number of Wireless	1
--- Communication Setup ---	
12.0.25 Scan Enable	Enabled
12.0.22 Port Type	Serial
12.3.3 Port	COM1:
12.0.6 Protocol	Modbus Host (RTU)
12.0.12 Register Format	32 BIT Totalflow
12.0.1 Interface	RS-485
12.0.2 Baud Rate	9600
12.0.3 Data Bits	8
12.0.4 Parity	None
12.0.5 Stop Bits	1
12.1.1 Xmit Key Delay (milliseconds)	5
12.1.2 Unkey Delay (milliseconds)	5
12.1.10 Response Delay (milliseconds)	0
12.1.3 Timeout (milliseconds)	500
12.0.13 Retries	0
12.0.17 Trailing Pad	None
12.0.24 Keep TCP Connection Open	No

4. Select the Client Setup tab under the Wireless # sub-menu within the Wireless I/O Interface application in the tree-view. Change the Modbus Address to 32. Click Send.

Wiring the I/O to External Devices

[Figure 2](#), on the back, shows the various connectors and pinouts associated with the expanded I/O of the WellTell-IO controller. The WellTell I/O provides the following additional input/output:

- 4 each: Digital Input/Output (Programmable)
- 4 each: Analog Inputs (0-10 VDC or 4-20 mA)
- 2 each: 100 ohm RTD inputs
- 1: Analog Output (4-20 mA Sink or Source)

As [Figure 2](#) shows, J11 handles the digital I/O and the analog output, while J12 handles the RTD and the analog inputs. Circuit descriptions of the digital I/O, the analog output, the RTD and the analog inputs are available in the User manual. See the scan code on the back.

Configure the WellTell-IO Radio

Requirements:

- WWU application
- A typical 9-pin to 9-pin (male DB9 to female DB9) cable

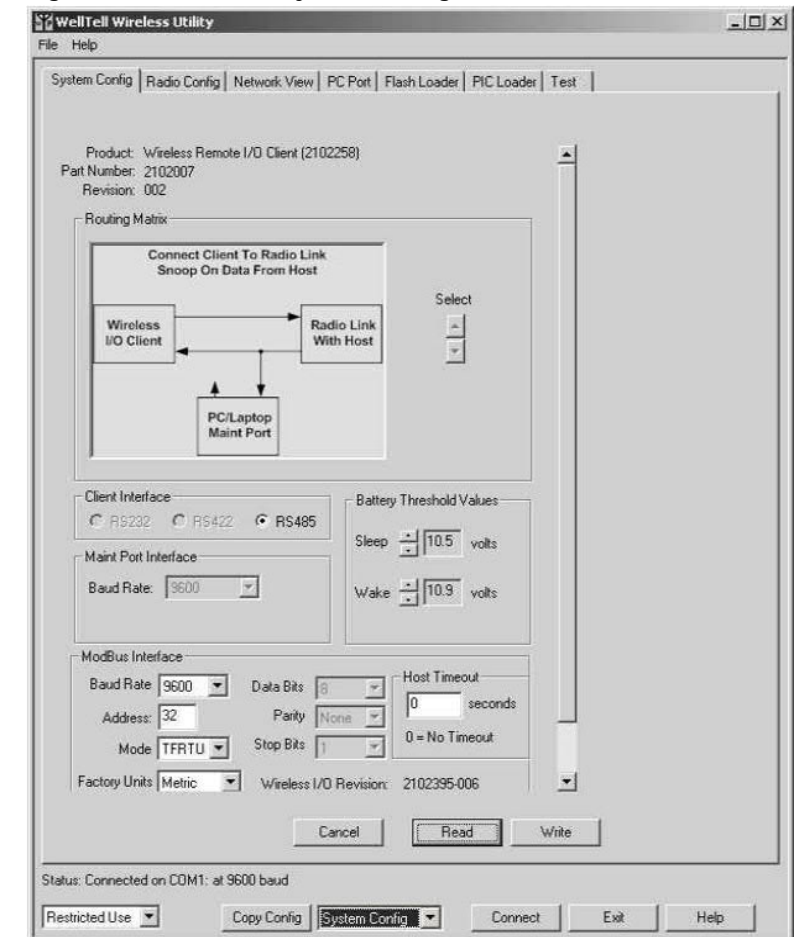
The cable connects between the laptop and maintenance connector to the WellTell-IO.

The opening screen for the WellTell-IO client radio is similar to the opening screen for the WellTell-X host except for a display stating this is a Wireless Remote IO Client not a Host Server.

See [Figure 5](#) for available tabs.

1. System Config Tab – Set the parameters as shown in [Figure 5](#).

Figure 5: WellTell IO System Configuration



2. Radio Config Tab - Set the parameters as follows:

Parameter	Value
Mode	Client
Network ID	1 (Must match Host)
RF Channel	Any between 16 and 47 (must match Host)
Baud Rate	9600
Delivery Mode	Broadcast
RF Mode	Acknowledge
Duplex Mode	Half Duplex

3. Network View Tab – Leave at the default values.