

## 1 DESCRIPTION

The Modbus Plus driver allows the FieldServer to transfer data to and from devices using Modbus Plus protocol. The driver was developed for Modbus Application Protocol Specification V1.1a" from Modbus-IDA. The specification can be found at [www.modbus.org](http://www.modbus.org). The FieldServer can emulate either a Server or Client.

The information that follows describes how to expand upon the factory defaults provided in the configuration files included with the FieldServer.

FieldServer Mode	Nodes	Comments
Client	1	Only 1 client node allowed on Multidrop systems
Server	255	The user can configure a FieldServer to handle Modbus Plus internal paths 1-8, each path can handle 254 Modbus Station addresses

## 2 FORMAL DRIVER TYPE

Fieldbus

## 3 COMPATIBILITY MATRIX

FieldServer Model	Compatible with this driver
FS-x2010	No
FS-x2011	No
FSx25	No
FS-x30	No
FS-x40	Yes
SlotServer	No
ProtoCessor	No
ProtoNode	No

## 4 PROPRIETARY PHYSICAL INTERFACES SUPPORTED

**Devices Supported:** Modbus+ devices

**Interface:** SA85 (requires the 8915-01 Modbus Plus Single Port or 8915-19 Modbus Plus Dual Port Adapter Card)

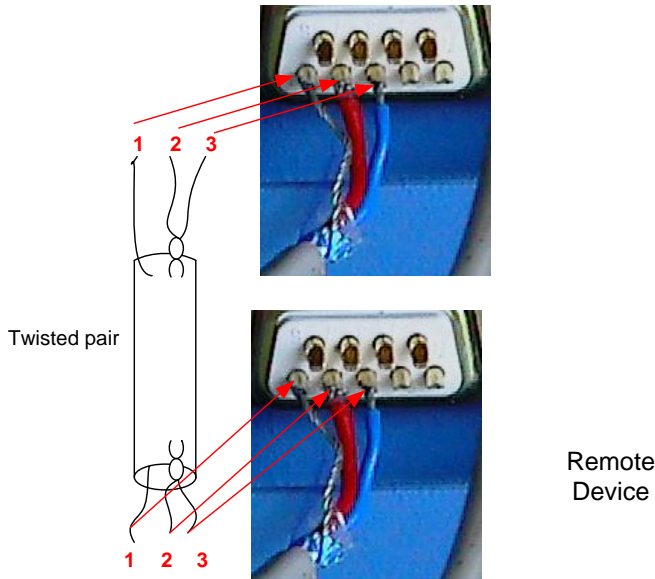
## 5 DEVICES TESTED

Device	Tested (FACTORY, SITE)
Modbus Plus 201	SITE

## 6 CONNECTION CONFIGURATIONS

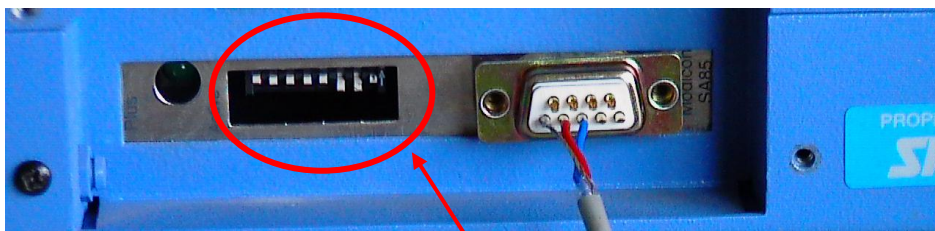
Connect the FieldServer to the Remote Device using a shielded twisted pair cable as shown in the following photograph.

Wiring Detail



### 6.1 Connection Notes

Set the dip switches on the Modbus card. The DIP switch is set to one less than the actual address. Refer to **Error! Reference source not found..**



Dip Switches

## 7 COMMUNICATIONS FUNCTIONS - SUPPORTED FUNCTIONS AT A GLANCE:

### 7.1 Command/SubCommand Supported:

Command	Description
01	Read Discrete Output Status (0xxxx)
02	Read Discrete Input Status (1xxxx)
03	Read Output Registers (4xxxx)
04	Read Input Registers (3xxxx)
05	Force Single Coil (0xxxx)
06	Preset Single Register (4xxxx)
15	Force Multiple Coils (4xxxx)
16	Preset Multiple Registers (4xxxx)