X-Series Recorders – Quick Start Installation Guide

Modbus Connection from HC900 Controller, Protocol Ethernet

**Slave Configuration**

1. Set the HC900 Ethernet TC/IP and ID settings using the Honeywell HC Designer software package.

2. Connect the HC900 to the X-Series Recorder through a 100 / 10 base T network, see diagram.

**Master Configuration**

3. Enter Recorder Setup menu and select the following buttons, Comms>Services> MODBUS> Master> from this menu, Enable master and select the first available Slave 1-32.

4. From the slave menu, Enable the slave and copy the Slave settings from the table opposite and populate the relevant fields.

5. Select the Transaction 1 field, Enable this field and copy the Transaction 1 settings, from the table opposite into the relevant fields, Note this will send back analogue 1 readings only, refer to HC900 Modbus register map for other outputs.

6. To display analogue 1 readings from the HC900 on the X-Series recorder, enter the SCV[*1,1,1] statement, into the Edit Maths field on a spare Pen. Note the * will be a number between 1-32 depending which Slave was enabled.

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**X-Series Recorder Modbus Settings**

**Slave Device**

- **Enable**: ✓
- **Friendly Name**: HC900 or unique device name
- **ID**: ID number from the HC900
- **Port**: Ethernet
- **Network Name**: TC/IP Address (same as HC900
- **Protocol**: Modbus – X (FPB)
- **Transaction 1**: In 8193 1

**Transaction 1**

- **Enable**: ✓
- **Direction**: In
- **Command**: Holding Register 3
- **Data Type**: IEEE Float
- **Dec. Start Addr**: 8193
- **Number of Items**: 1

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**HC900 Ethernet Connection**

Connect the Network cable to Socket E1 on the HC900

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**Serial Comms Variable, Slave No, Transaction No, Item No.**

SCV[1,1,1]