MICRO CONTROL SYSTEMS

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www.mcscontrols.com

MCS Total Solution for all your Control Needs

MCS-MODBUS-I/O

Software Update Procedure & Wiring

The MCS-MODBUS-I/O gives the MCS-MAGNUM the ability to act as a Modbus Master using the Modbus RTU Protocol. This allows the MCS-MAGNUM to communicate to Modbus slave devices (such as Variable Frequency Drives, Compressors, etc.) to send and access parameters.

Rev-2015-09-28

Energy Efficient and RoHS Compliant

RoHS Compliant

Revision/Disclaimer Page

Date	Author	Description of Changes
2015--03-17	DEW	Restructured manual
2015-09-28	DEW	Update photo

The MCS Commitment is to provide practical solutions for the industries needs and to be both a leader and partner in the effective use of microprocessor controls.

Micro Control Systems, Inc.
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Wiring to MCS-GATEWAY & Power Source
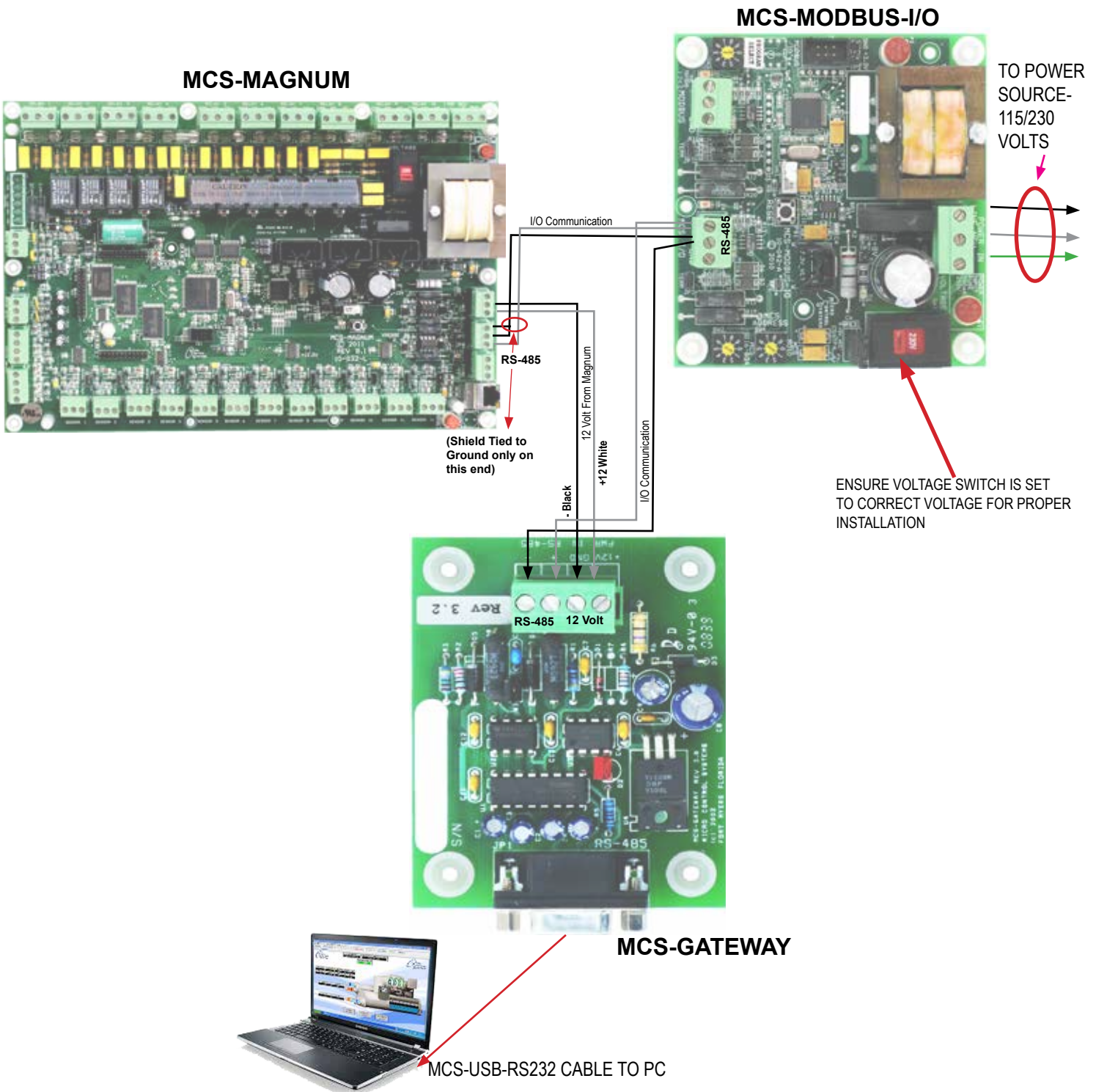
Wire MCS-MAGNUM I/O Communcation to MCS-MODBUS and than to MCS-GATEWAY as shown in diagram below.

Wire 12 volt power supply from MCS-MAGNUM to MCS-GATEWAY.

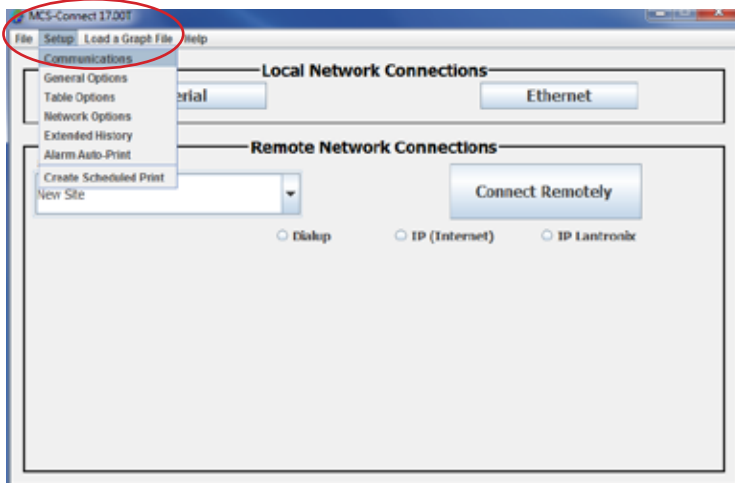For communication to PC, use a MCS-USB-RS232 cable from MCS-GATEWAY TO USB port on PC.

MCS-MODBUS-I/O

TO POWER SOURCE- 115/230 VOLTS

MCS-MAGNUM

I/O Communication

RS-485

RS-485

(Shield Tied to Ground only on this end)

12 Volt From Magnum

+12 White

I/O Communication

- Black

ENSURE VOLTAGE SWITCH IS SET TO CORRECT VOLTAGE FOR PROPER INSTALLATION

REV 3.2

RS-485   12 Volt

MCS-GATEWAY

MCS-USB-RS232 CABLE TO PC

Software Installation

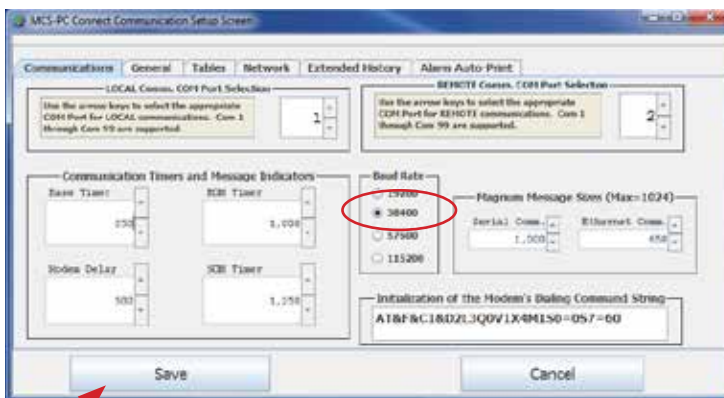**After the system is wired and connected:**
1) **Open MCS-Connect**

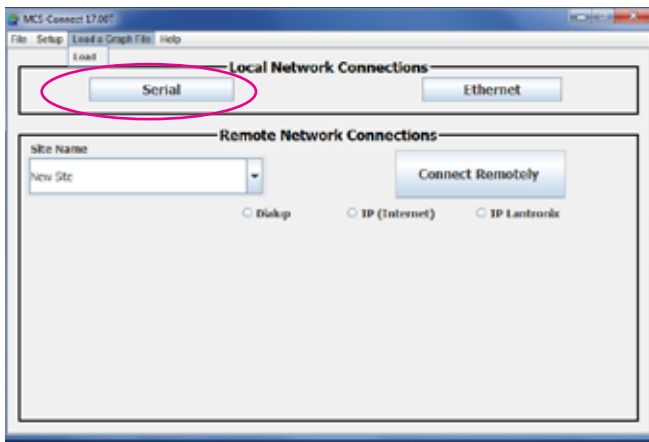2) Click on **Setup**, then click on **Communications**

3) **On the setup screen, ensure your LOCAL Comm. COM Port Selection is set up to the correct port. Change the Baud Rate to 38400.**
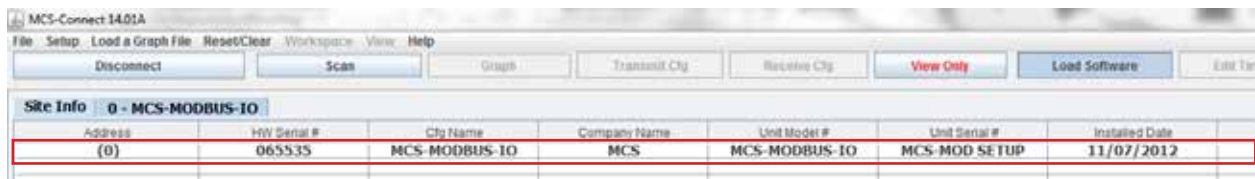

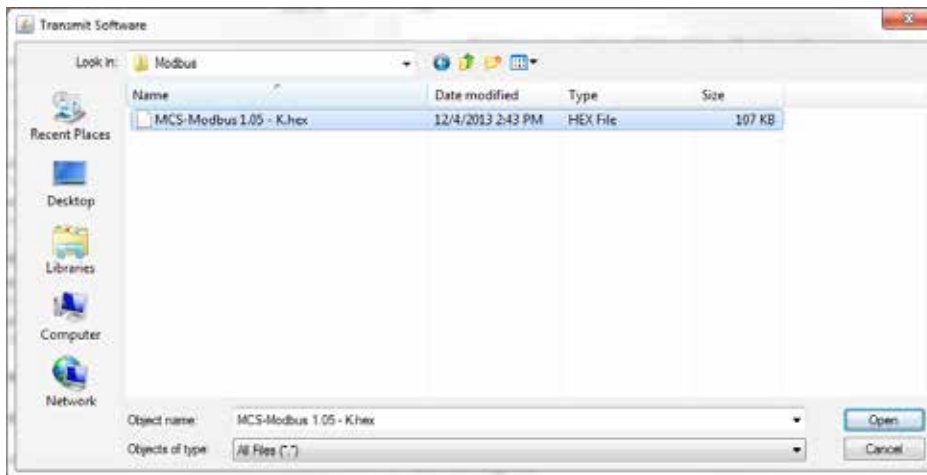
4) **Click Save once you have made your changes.**
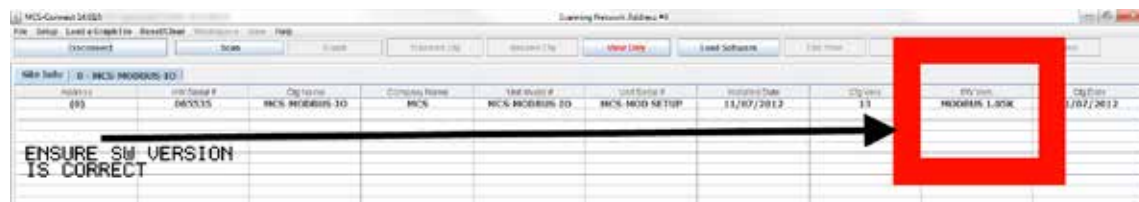
5) **Back in the main screen, click Serial.**

6) **Once the MCS-MODBUS-IO shows up, click on Load Software.**

3) **Browse to and select your hex file and click Open.**

4) **Wait for MCS-Connect to finish transmitting the software then ensure that software version is correct.**

ENSURE SW VERSION
IS CORRECT

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