



AIMCO

UEC-4500 MES System Setup and Usage Manual

UEC – 4500 Serial to Ethernet for Mobis

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Integrating the Uryu UEC-4500 controller into the Mobis MES control system.

The system consists of a UEC-4500 Controller with optional serial port installed and a Serial to Ethernet Converter per station along with one software program located on a PC that acts as a communication link between the UEC controllers and the MES system.

Setup of the UEC Controller consists of setting the following:

Mode 57: 0
Mode 58: 0
Mode 59: 0
Mode 60: 2
Mode 61: 1
Mode 62: 0
Mode 63: 0
Mode 64: 1
Mode 65: 0
Mode 66: 0
Mode 67: 0
Mode 68: 1
Mode 69: 1

The following procedures are to be used for setting up each of the serial to Ethernet converters:

NOTE: A separate IP address and IP Port must be programmed into each box.

Introduction

The Serial to Ethernet box has 1 ethernet port and one RS232 Serial port (The html document includes setup information for the optional second COM port). It uses html to change settings from their default settings. When transmitting from either serial port, it echoes over the Ethernet to the computer connected at the other end; however, if the computer sends data back through the Ethernet port, it will only display through Com 1.

Setup

Connect a standard RS232 serial cable from the serial port of choice to the serial device. Connect the Ethernet port to an Ethernet hub using a standard Cat 5 RJ45 cable. If you are connecting directly to a computer you can use a crossover cable. Plug the power supply in on the box and wait a minimum of 5 seconds for it to initialize.

The box should now be connected to the network with the default settings. If you need to change the default settings, the computer connected to the box needs to be set to an ip address on the 192.168.1.xxx domain using an ip address other than 192.168.1.2 which is the default ip address for the box. In the browser address bar enter <http://192.168.1.2> and hit ENTER or GO. A configuration screen should appear showing the default settings. You can change any of the settings and hit submit, but remember that you need to enter the current password before any changes will be implemented. The default password is naranja.

Resetting the box

When first powering up the box, if you hold the reset button it will set the box back to the default settings. Let go of the button and disconnect the power. When you re-connect the power the box will re-initialize with the default settings.

MES Software

After the boxes are programmed, the software program “AIMCO UEC-4500 Serial To Ethernet Connection Software” that is loaded on a PC needs to be configured for each node (Box).

From the menu, click on Setup. This opens the setup screen where you can add or delete nodes. If you click on ADD the description will state “New Item”. Change the description to whatever is good. Enter the IP Address and the IP Port. Select the Torque Unit (NM, KG-M, etc). Check the appropriate outputs from the UEC. If the instructions were followed above, you will check Torque, Pulse and Judgment. Enter the station ID. The station ID should be a unique number from 1 to 9999. This number will tell where the tool is being used to the MES system.

Hit the SAVE button. If the computer is on the network and the controller and serial to Ethernet converter is on the network a connection should occur.

The right side of the Setup screen is the host information. Only concern yourself with the Host IP Port. The IP Address portion is non-functional at this time. The MES system will connect to this port.

You can test the connection by clicking on the Status menu item and double clicking on the added node. If the indicator turns green it means you have a good connection. If it stays black or turns yellow it means it did not connect properly.