# Programming a Wireless Monitoring Site

# Run the TRS Configuration Tool:



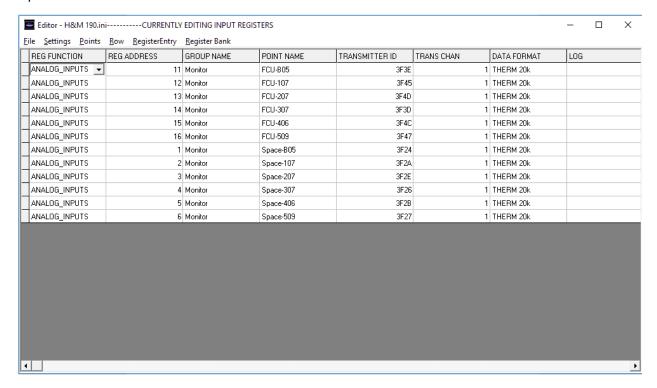
The program will take quite a few seconds to become responsive.

# Press File | Open Gateway File:



Copy the most recent project and rename it to the new site.

#### Open the new file.



We can either delete the rows or delete the information on them.

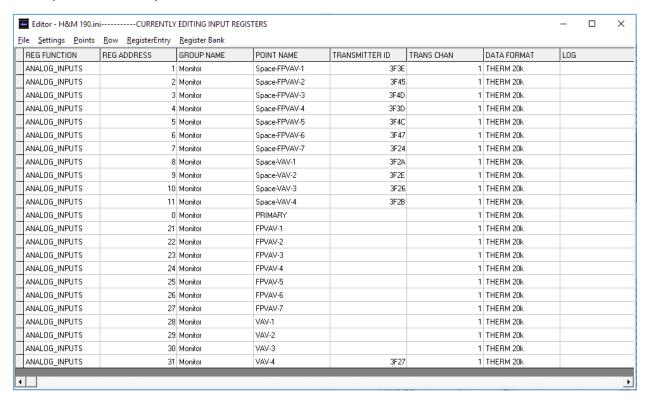
In this case we need far more rows than the previous project. The Row menu allows us to Insert before, Append after, or Delete the current row.

Point Names and Register Address must be unique. All information other than the name must be input using drop-down menus—which can be inconvenient, especially for the Transmitter ID. UPDATE: type the address and press the down-arrow.

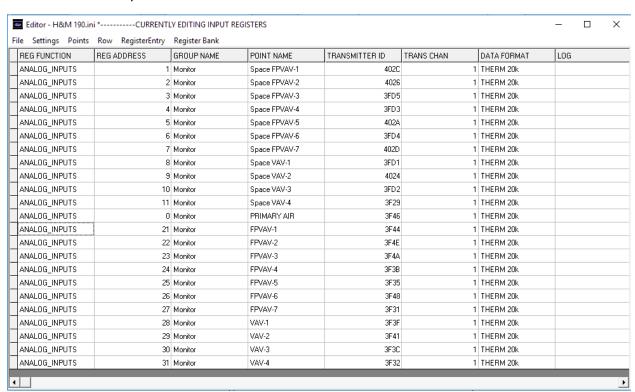
The file created is comma-delimited.

The program will save (and even pretend that it successfully transfers) a file with commas in the point names, but it cannot reopen it! (Fortunately, Notepad++ was able to remedy the situation.)

#### The expanded file, ready for the Transmitter IDs.



#### The finished Gateway File:



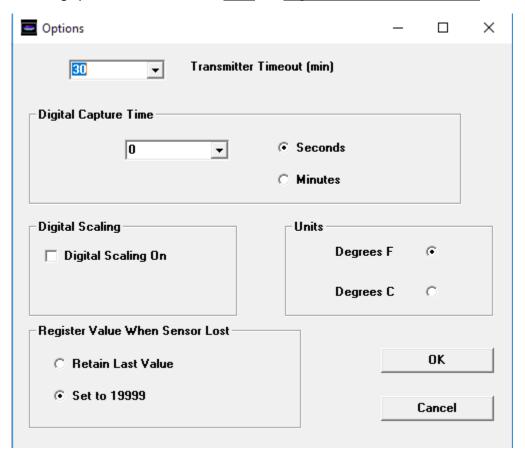
### LABEL EACH SENSOR IMMEDIATELY!



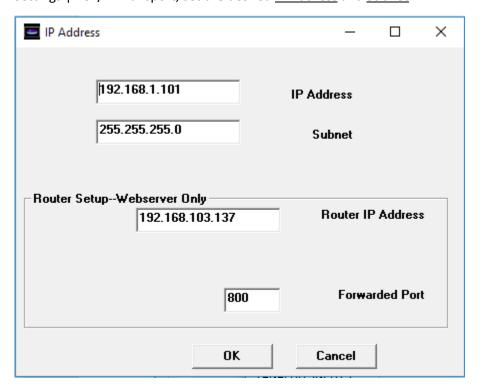


AND LABEL THE BOXES FOR EACH SENSOR!

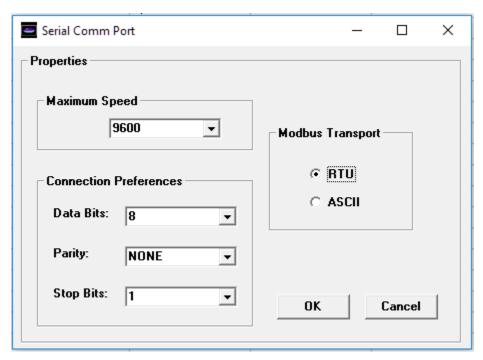
In Settings | Miscellaneous, set the <u>Units</u> and <u>Register Value When Sensor Lost</u>:



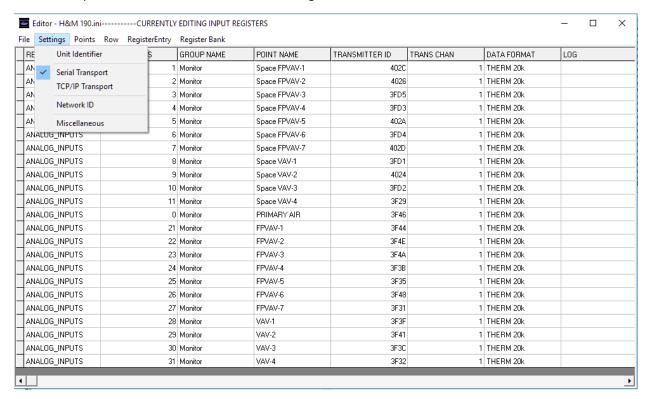
Settings | TCP/IP Transport, set the desired IP Address and Subnet:



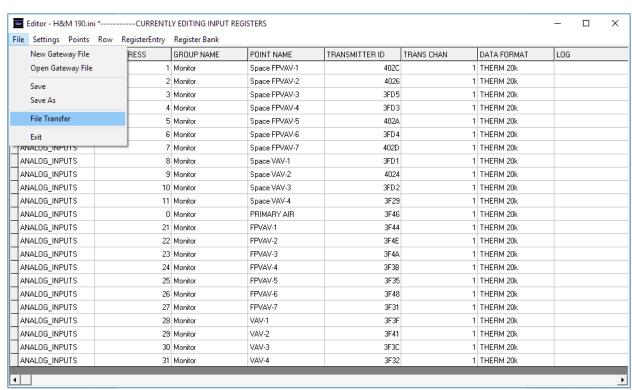
In Settings | Serial Transport, select <u>RTU</u> Modbus Transport:



#### Serial Transport will now be checked in the Settings menu:



## Save the configuration file and select File | Transfer to send it to the wireless receiver:

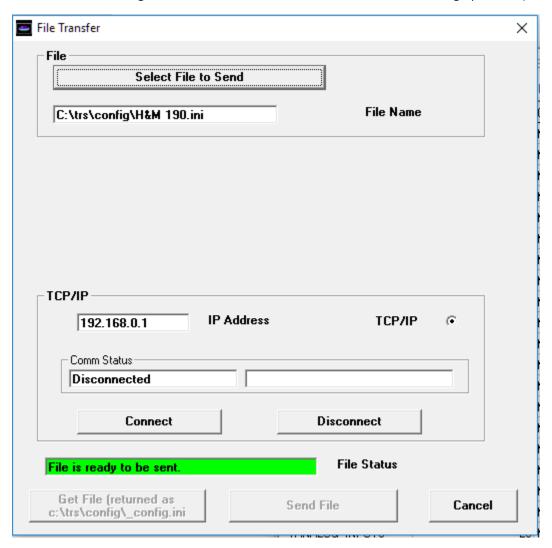


The wireless transceiver has an initial IP address of 192.168.0.1 and subnet 255.255.255.0.

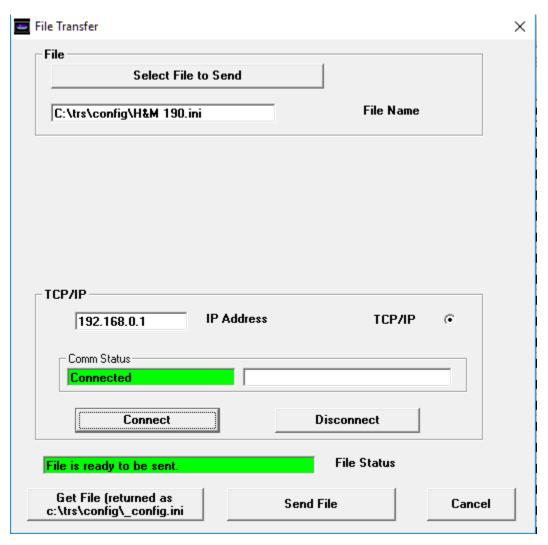
The computer's Ethernet port needs to be configured accordingly.

Select the correct file to send. Set the receiver's IP address.

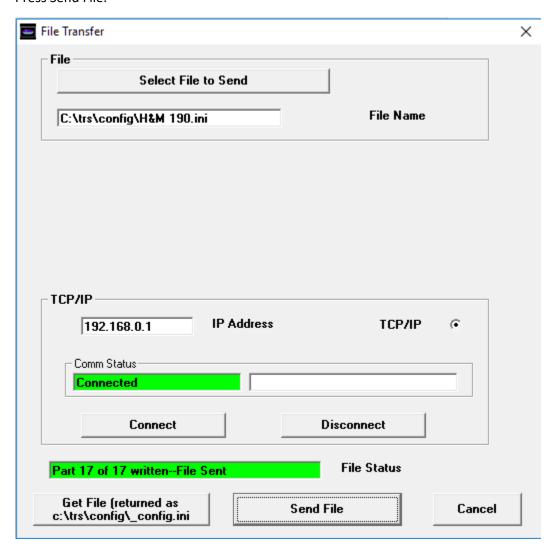
(Note: if the file has already been transferred and now updates have been made, then the transceiver's IP address will no longer be 192.168.0.1; use the address entered in Settings | TCP/IP.)



### Press Connect.



#### Press Send File.

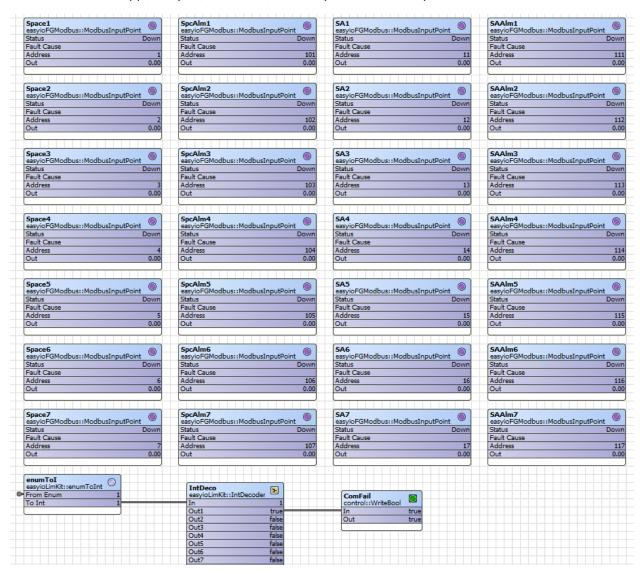


Press Disconnect and Cancel.

The station template name is "HandMWirelessMonitoringTemplateNov112017" (the date may be later). Setup the station as usual <u>except</u> for the central controller app.

For the central controller restore the file "HMLightingACIWirelessMonitoringNov222017" (or later).

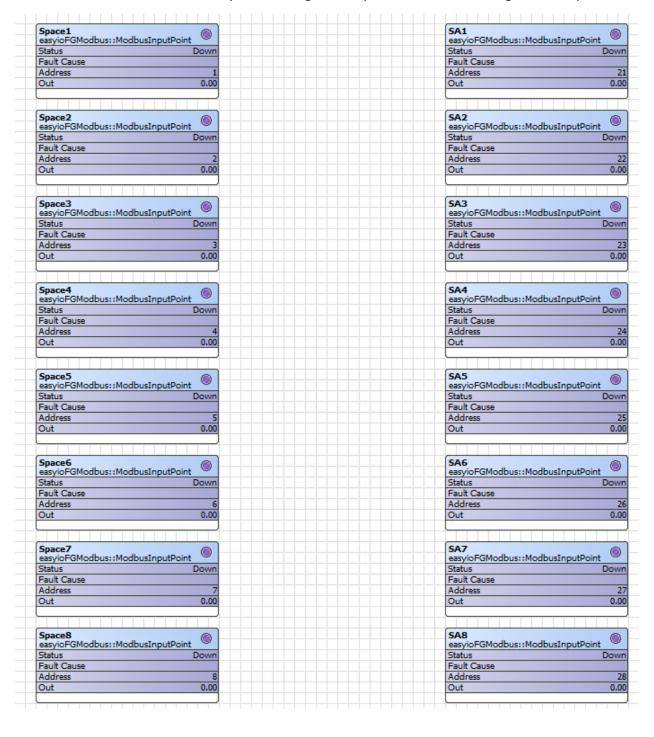
The Wire Sheet of App / EasyIO / ModbusS / Gateway will look initially like this:

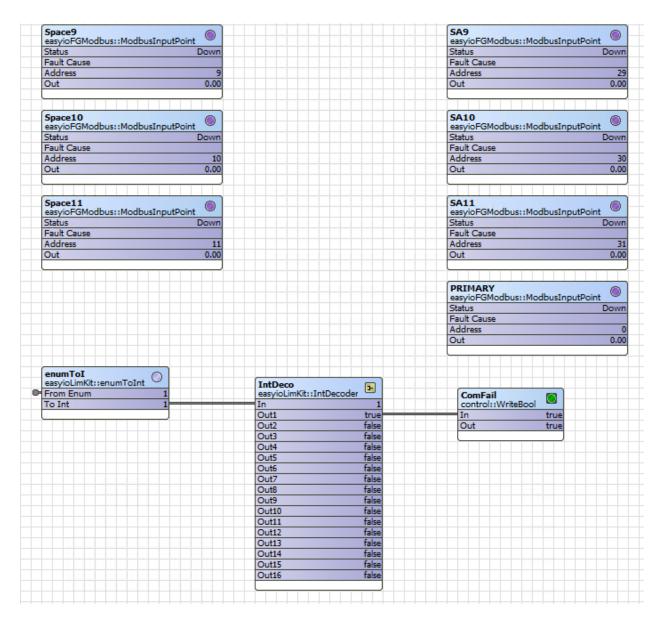


The controller is limited to 32 points, and with enough sensors there is no way to use the space and supply alarms. For that reason they were deleted from this site.

(The alarm points are automatically generated ... see the manual included with the transceiver.)

This is the wire sheet of the Gateway after editing it for a specific site and removing the alarm points:

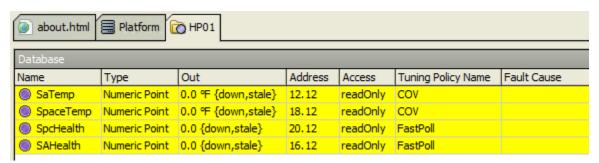




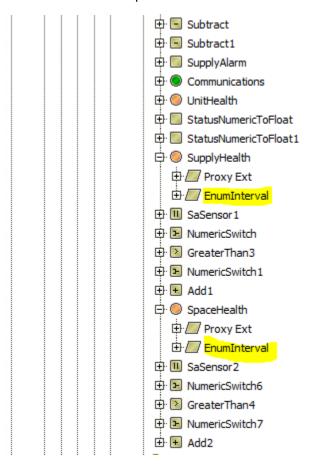
BACKUP THE CENTRAL CONTROLLER when all the points are defined and time zone is set.

In the station, the addresses need to match the central controller's app.

Health points can be deleted if unused.



If there are no health points then two histories will need to be pruned:



If the central controller has V2.0b50a or higher, kits will need to be upgraded before the backup.

Otherwise all values will be zero.

This can be tedious because of dependencies.