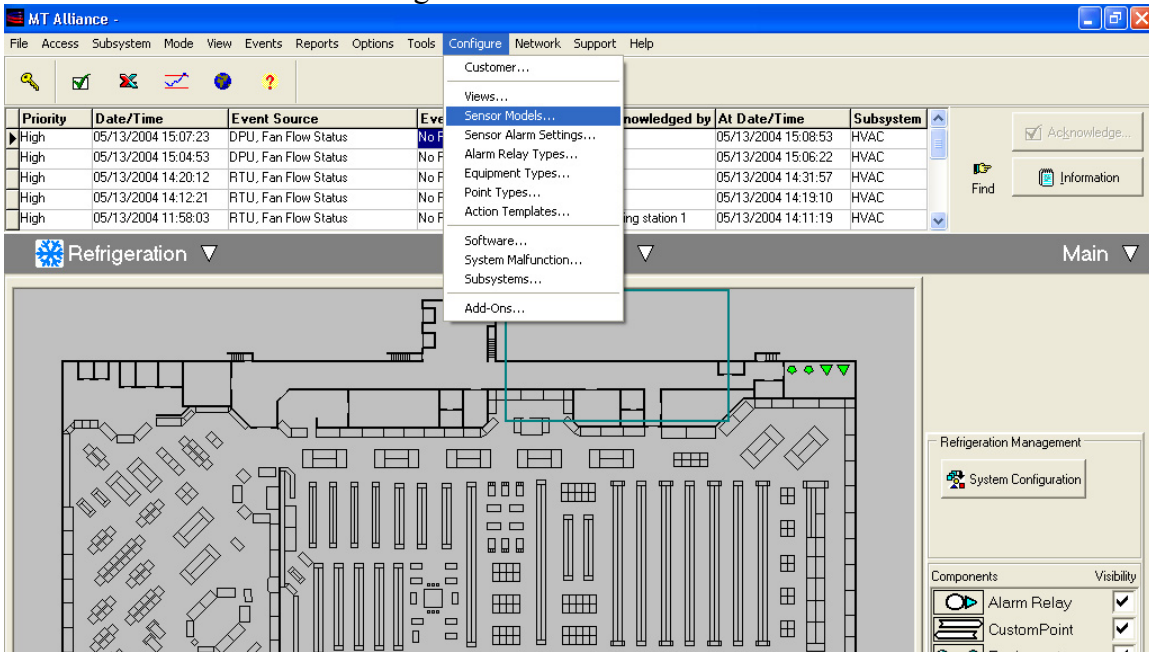


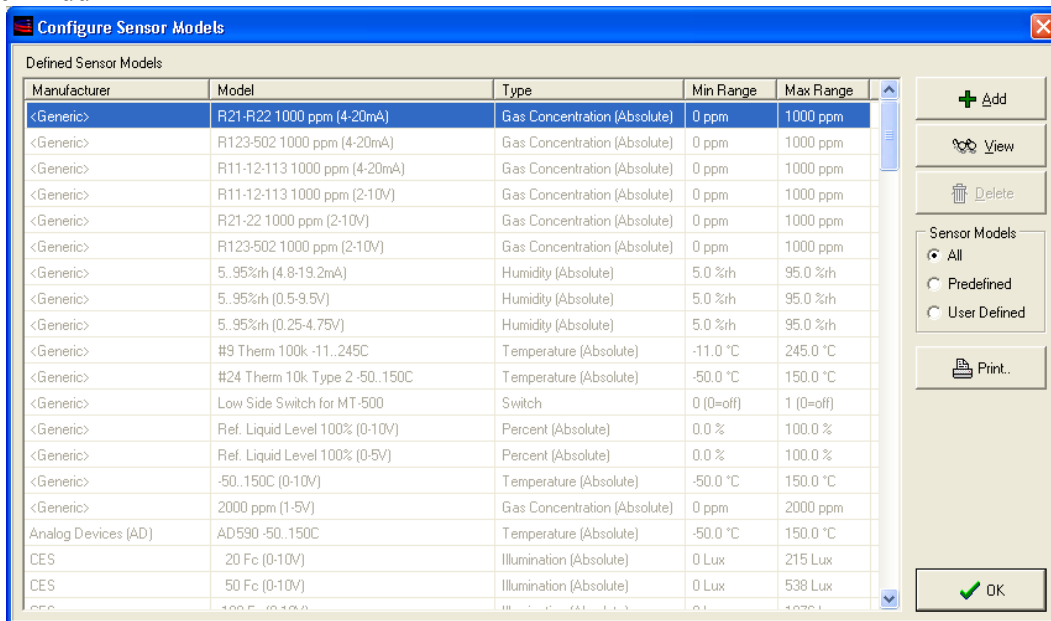
How to add the WattsOn power monitor model in MT Alliance V5.X

The 023-0293 WattsOn-1200-MSCT1-100A (120kW) is available in version 5.2
 The 023-0330 WattsOn-1200-MSCT1-200A (220kW) is available in version 5.2.1
 Under ELKOR manufacturer

First copy the diagram file “Elkor WattsOn-1200.bmp” (see Wiring diagram on page 4)
 in the folder Alliance\Images\Sensor Models\
 Click Sensor Model in the configure menu



Click Add



Fill the form as described below

These setting are for the WattsOn-1200-MSCT1-100A used with 3 MSCT1 CTs. For the WattsOn-1200-MSCT1-200A put 220 instead of 120.

Sensor Model - "Elkor WattsOn-1200-MSCT1-100A 120kW (0-10V)"

Manufacturers: Elkor
Model: WattsOn-1200-MSCT1-100A 120kW (0-10V)
Diagram: Alliance\Images\Sensor Models\Elkor\WattsOn-1200.bmp
Wireless: Can be Wireless

Type
Physical: Power
Electrical: 0-10V
Absolute: Differential:
Time Constant: 0 s

Properties
Max Range: 120.0 kW
Min Range: 0.0 kW
Max Offset: ±2.4 kW
0 to 20% of total range (Default: 2%)
Point 1 (Ref): 10 V at 120 kW
Point 2: 0 V at 0 kW

Network
Max Send Time: 00:00:30
Min Send Time: 00:00:03
Send On Delta: 1.0 kW

OK Cancel

Click OK

If needed you can define the Power Factor Sensor Model as below

Click Add

Sensor Model - "Elkor WattsOn-1200-MSCT1 Pwr Factor (0-10V)"

Manufacturers: Elkor
Model: WattsOn-1200-MSCT1 Pwr Factor (0-10V)
Diagram: Alliance\Images\Sensor Models\Elkor\WattsOn-1200.bmp
Wireless: Can be Wireless

Type
Physical: Power Factor
Electrical: 0-10V
Absolute: Differential:
Time Constant: 0 s

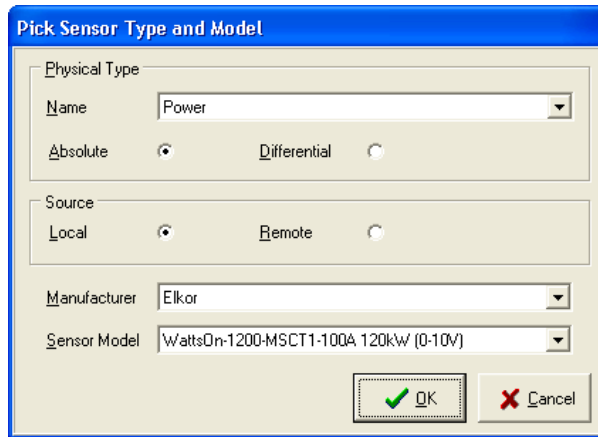
Properties
Max Range: 1.00
Min Range: 0.00
Max Offset: ±0.02
0 to 20% of total range (Default: 2%)
Point 1 (Ref): 10 V at 1
Point 2: 0 V at 0

Network
Max Send Time: 00:00:30
Min Send Time: 00:00:03
Send On Delta: 0.01

OK Cancel

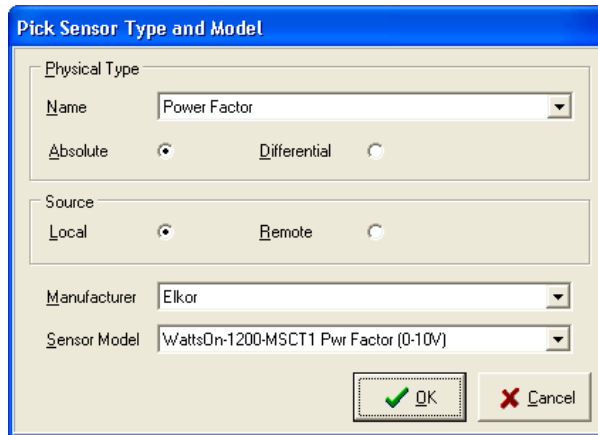
Once completed you won't have to repeat this step again for this site.

To drop the Real Power reading, zoom in the appropriate **view**
Drag and drop a sensor from the **Component** box
Make the appropriate selection (120kW or 220kW) and click OK.



Click on the new button and configure the name, disable or configure the alarm limits and the sensor node input

To drop the Power Factor reading, zoom in the appropriate **view**
Drag and drop a sensor from the **Component** box
Make the following selection and click OK.



Click on the new button and configure the name, disable or configure the alarm limits and the sensor node input

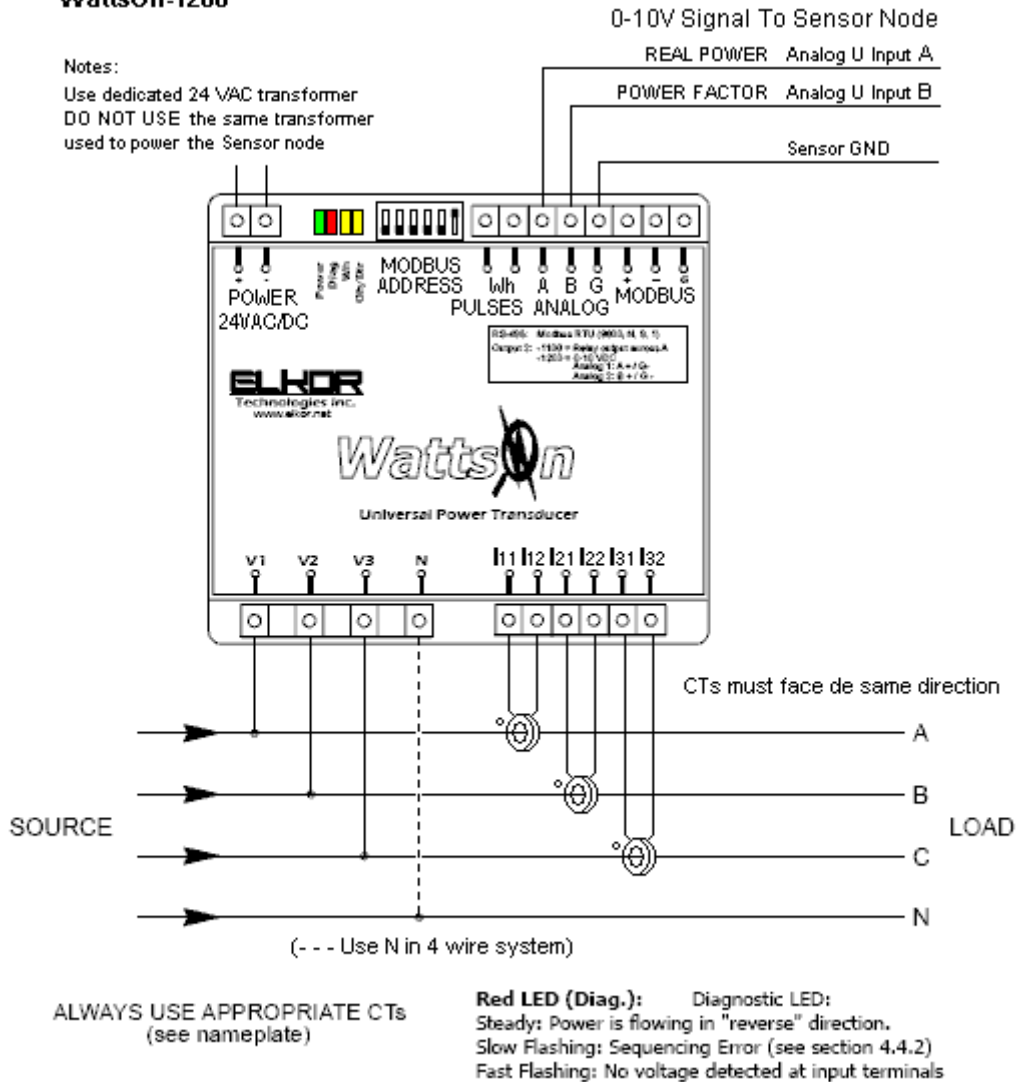
User defined sensors are not available for a plug-in.

Wiring diagram

WattsOn-1200

Notes:

Use dedicated 24 VAC transformer
 DO NOT USE the same transformer
 used to power the Sensor node



If the CTs are not facing the same current direction the Power signal won't be accurate and the Diag LED may not detect the fault.

The WattsOn can be configured in different ways using a laptop with the appropriate software connected to the MODBUS port. So make sure you are using the respectively the WattsOn-1200-MSCT1-100A or 200A especially customized for this purpose or the output signals won't reflect the expected values.

For more information for the WattsOn installation see the Elkor WattsOn manual.