

Quick Start Guide
Installing a Keller Pressure / Vacuum Transducer

Items Required

Keller Transducer - Series 30 - Preciseline Model 0308.36723.070369
Keller CCS30 - Test and Setup software
Power Supply - A/C wall adapter 12VDC
RS-422/485 to RS-232 adapter
RS-232 Serial Port - USB adapter
Total Vu Software w/ *Keller Series30.ini* device file

1. μ Linc Setup - Install RS-232 USB adapter into any μ Linc USB port, follow mfg instructions. Note the COM port number in device manager. Set COMx: port to 9600,8, n,1
2. The Transducer is pre-wired to the A/C wall adapter 12VDC
3. Install Transducer into target machinery
4.

<u>Transducer pin-out</u>	<u>LaserLinc extender cable pin-out:</u>
Black - 3.3 - 12VDC	Red
White - Ground	Blk (paired with Red)
Blue - RS-485A	White (T/R+)
Yel - RS-485B	Blk (paired with white (T/R-))
5. Connect White / Black wires to RS-485 adapter per chart above
6. Plug RS-485 adapter into RS-232 serial port on μ Linc
7. Plug A/C adapter into 120VAC outlet

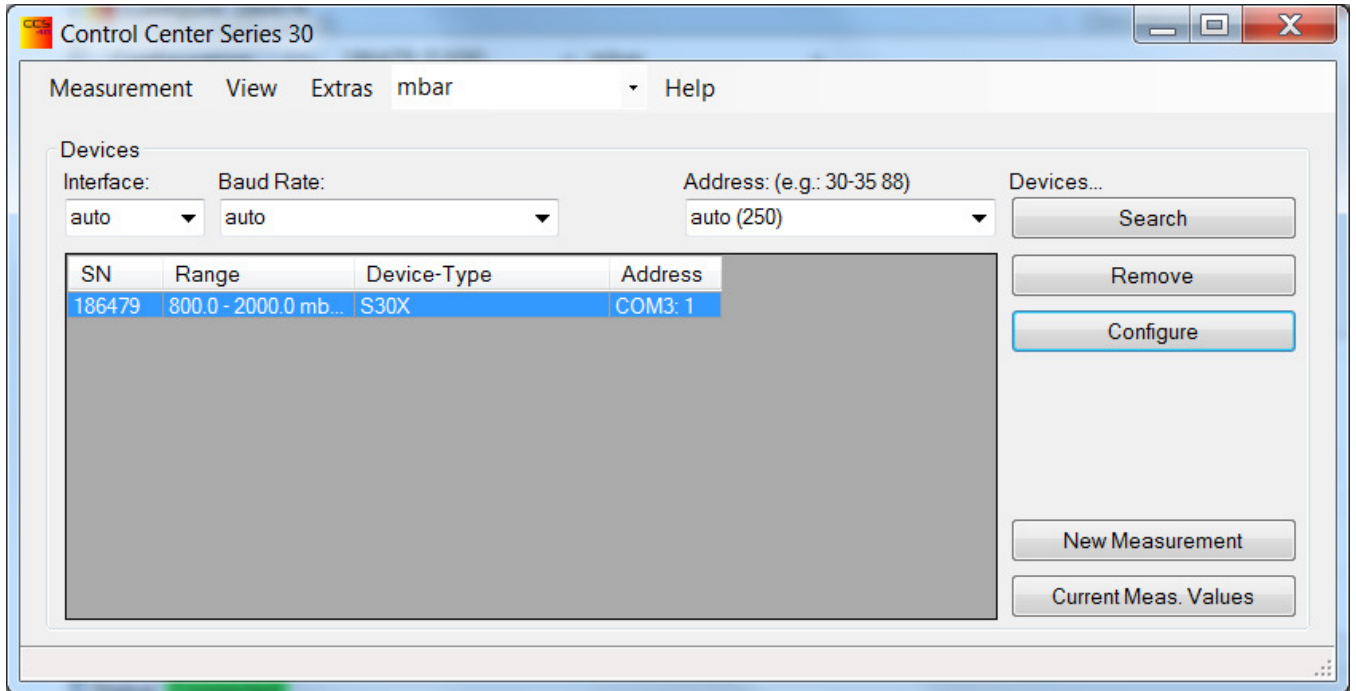
TotalVu Setup

1. Exit Total Vu
2. Copy file *Keller Series30.ini* into Total Vu's *c:\Laserlinc\Total Vu\devices* folder
3. Install Keller's CCS30 config and test program

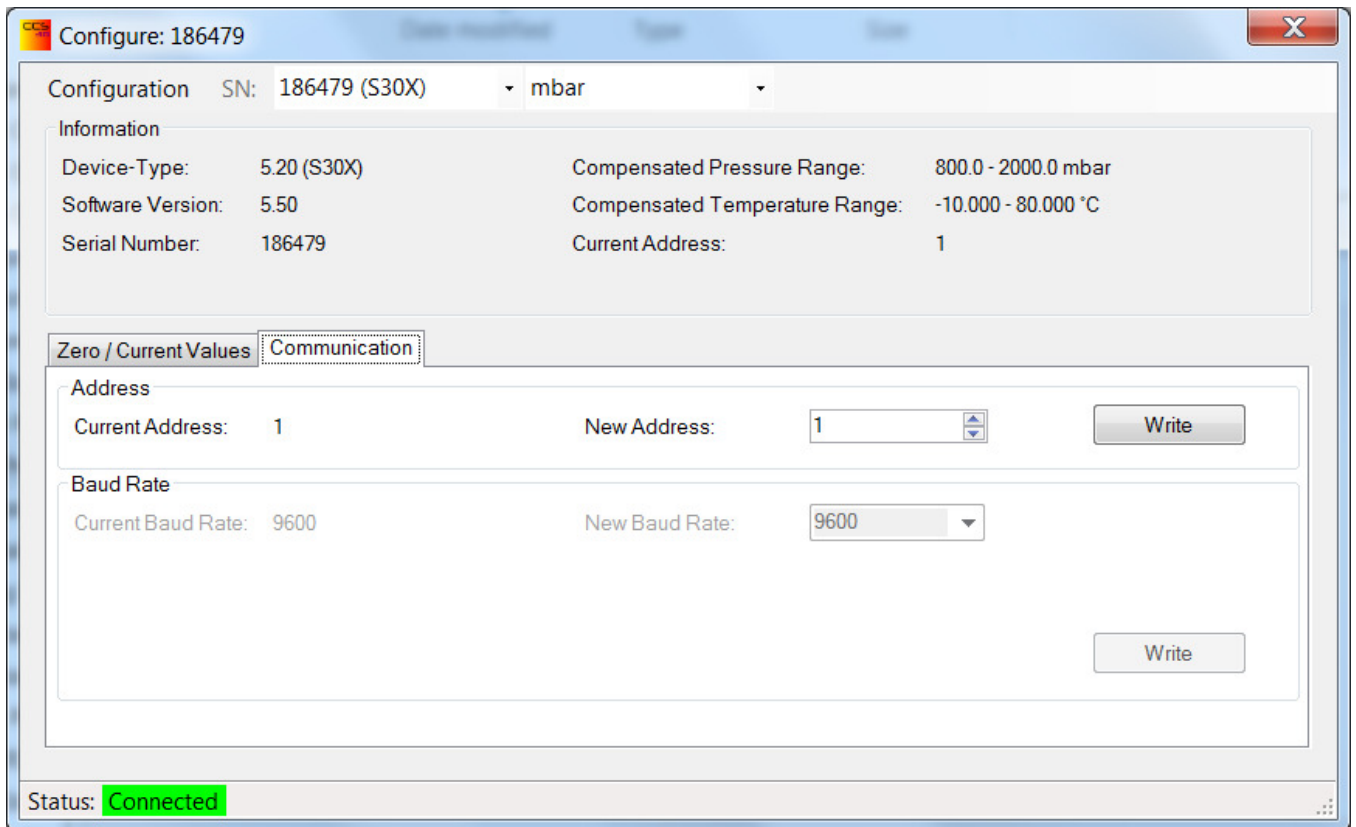


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4. Run CCS30, search for device. This device found on COM3:1 (device 1)

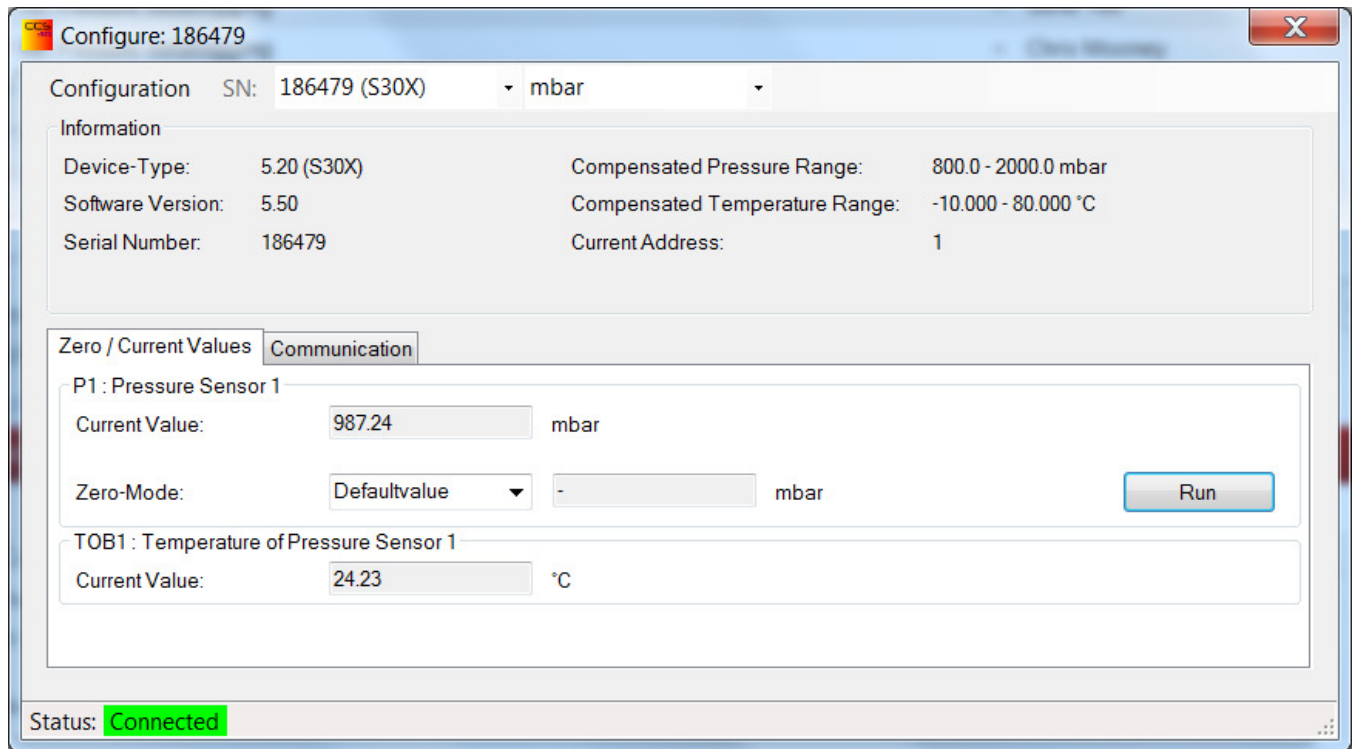


5. Goto Config - Set device to address 1 (or 2 if second device), click the write button

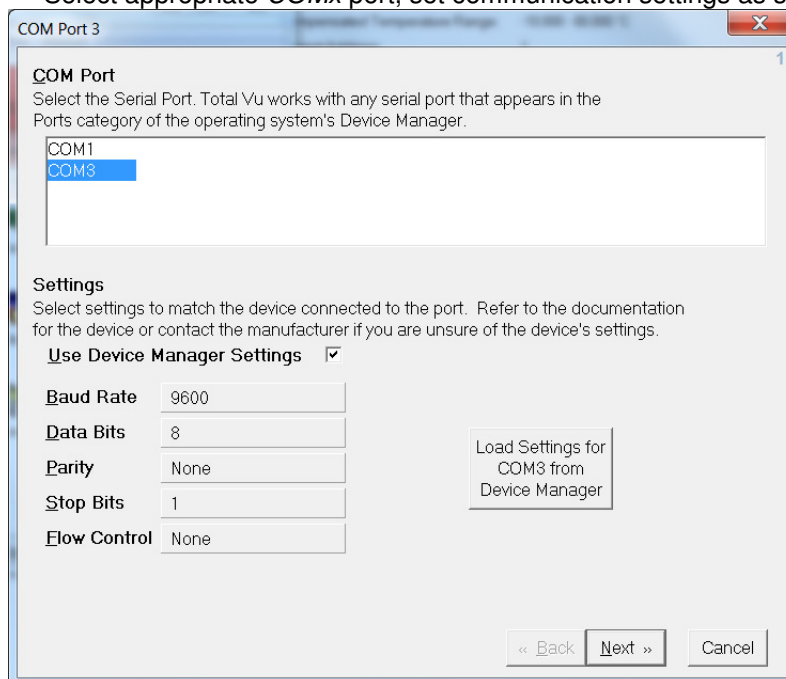


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6. In the Zero/Current Values Tab set the Zero Mode to *Defaultvalue* and click Run, Exit CCS30 software.

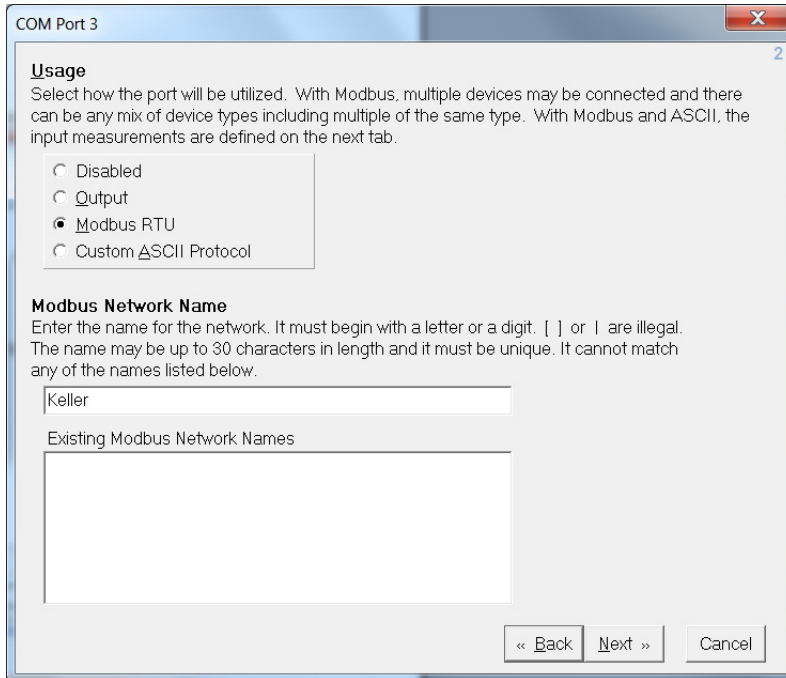


7. Run Total Vu Software / Full Config / Serial I/O
8. Select appropriate COMx port, set communication settings as shown (if necessary)

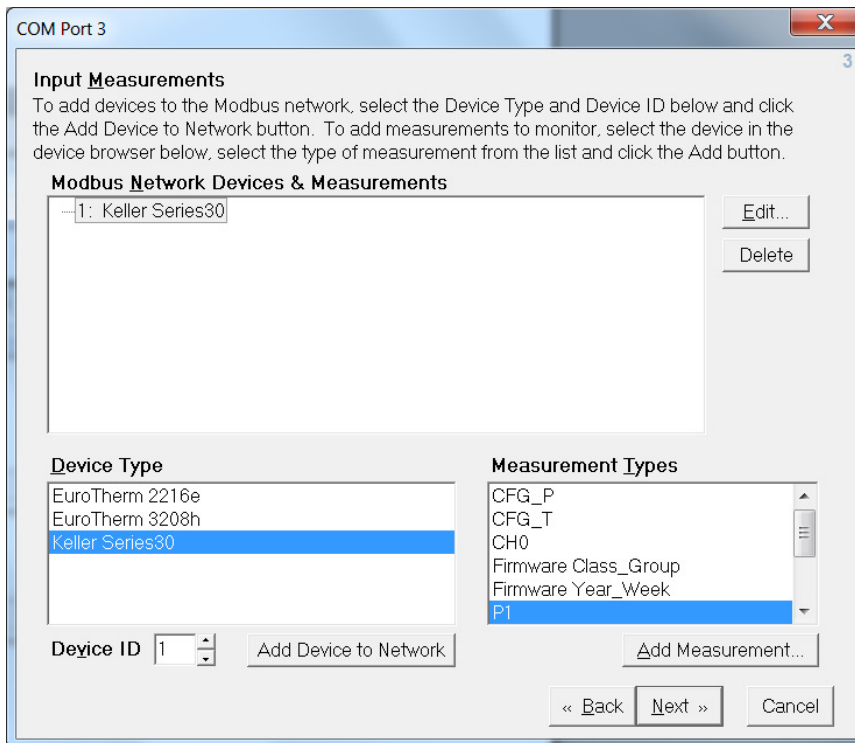


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9. Select *Modbus RTU* & choose a Modbus Network Name



10. Select *Keller Series 30* from *Device Type*, Click *Add Device to Network*. Select *P1* then click *Add Measurement*



11. Select these values;

Modbus Input Measurement - P1 on Keller [Keller Series30]

Number to Average
Enter the number of measurement values received from the device to collect and average before reporting a new measurement value.
1

Running Average
If checked, the value reported will be the average of a user-specified number of the most recent measurements.
 Use Running Average

Resolution
Select the number of places to display in the measurement value to the right of the decimal point.
2 0.12

Scaler
Select the multiplier to apply to the data received from the Modbus device. The scaler is applied prior to reporting it as a measurement value. An example is shown to see the effect of your setting.
0.01 **Example: Received Data = 145; Result = 1.45**

Offset
When the Use Offset box is checked the value below is added to the computed value of the function before it is reported. A negative Offset results in a smaller final measurement value.
 Use Offset

<< Back Next >> Cancel

12. Click through, name measurement *BAR* & finish

Modbus Input Measurement - P1 on Keller [Keller Series30]

Measurement Name
Enter the name for the new measurement. It must begin with a letter or a digit. [] or | are illegal. The name may be up to 30 characters in length and it must be unique. It cannot match any of the names listed below.
Bar|

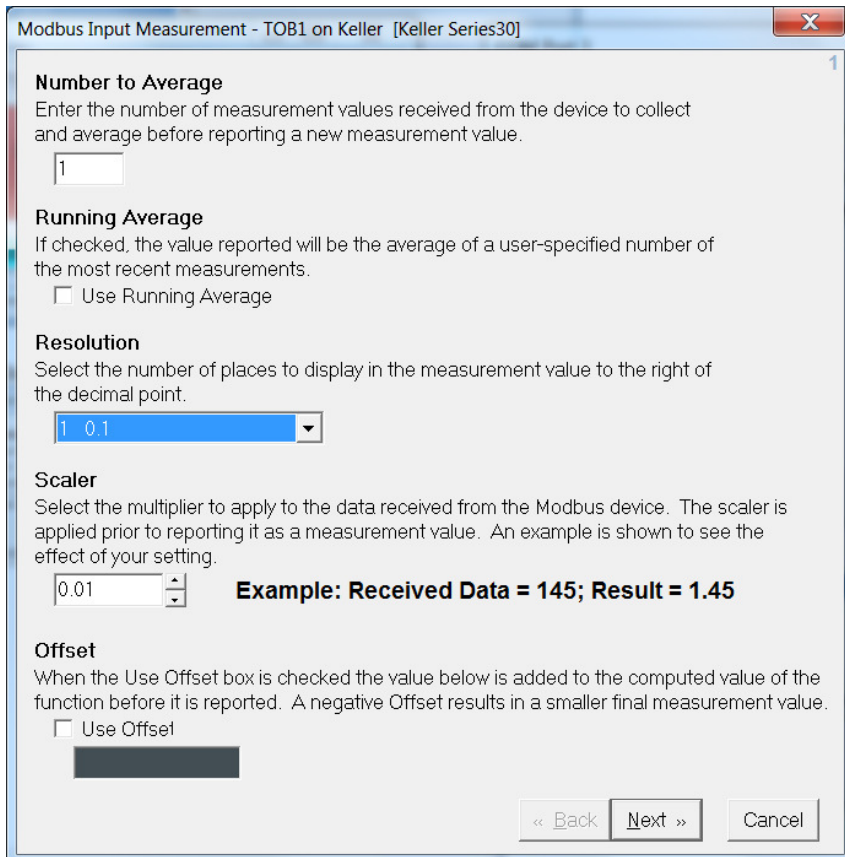
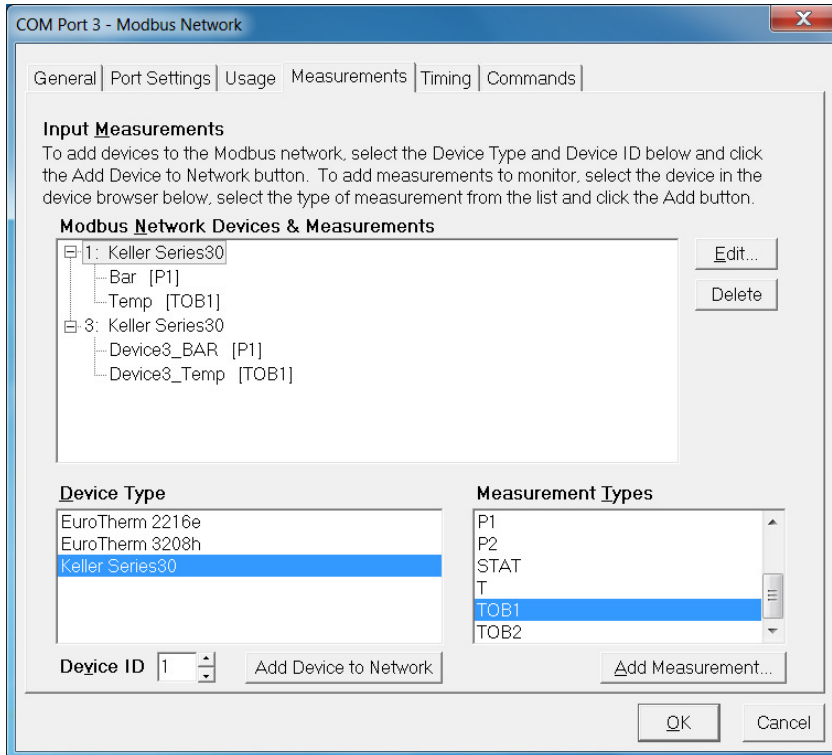
Existing Measurements (shown for convenience)

<< Back Finish Cancel



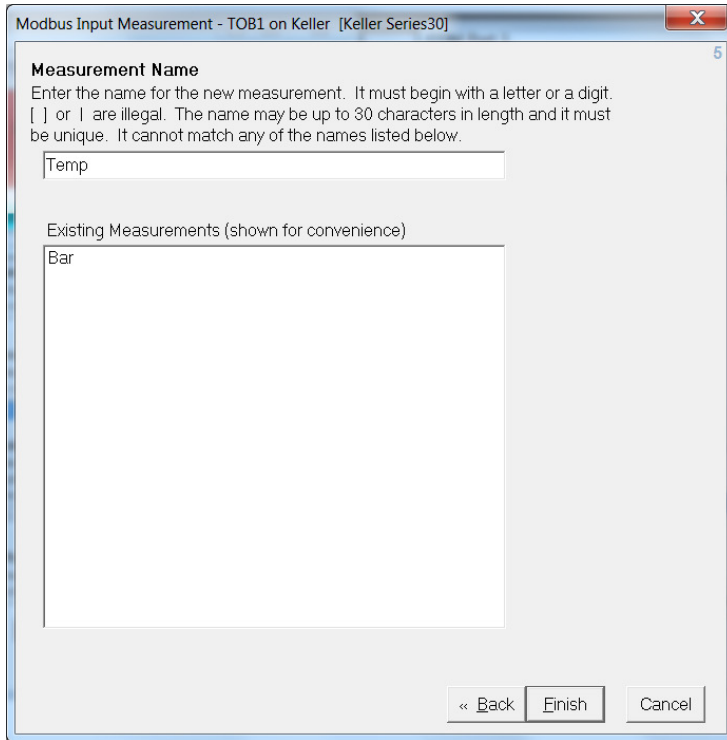
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13. Add Temperature measurement - Select TOB1 & click Add Measurement

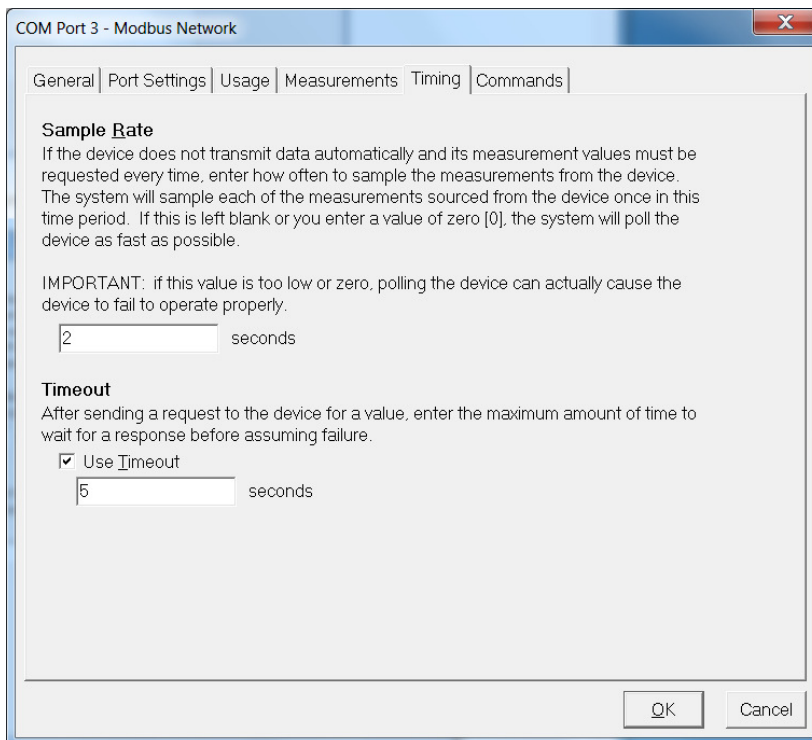


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14. Click through, Name Measurement *TEMP* and *Finish*

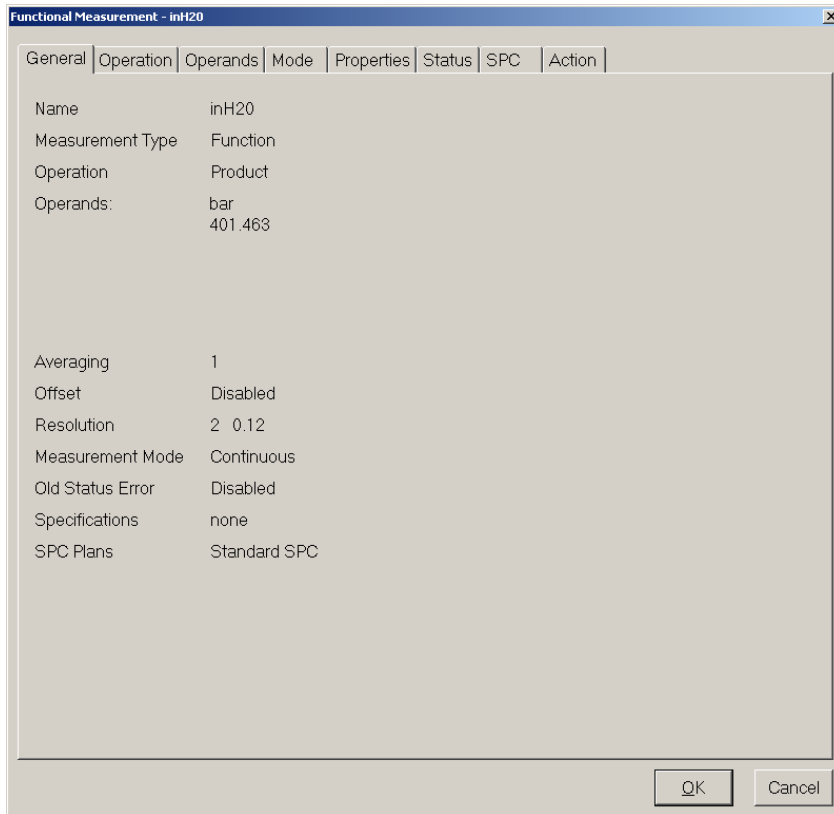


15. Hit *Next*, Set Sample Rate and Timeout values **as shown**

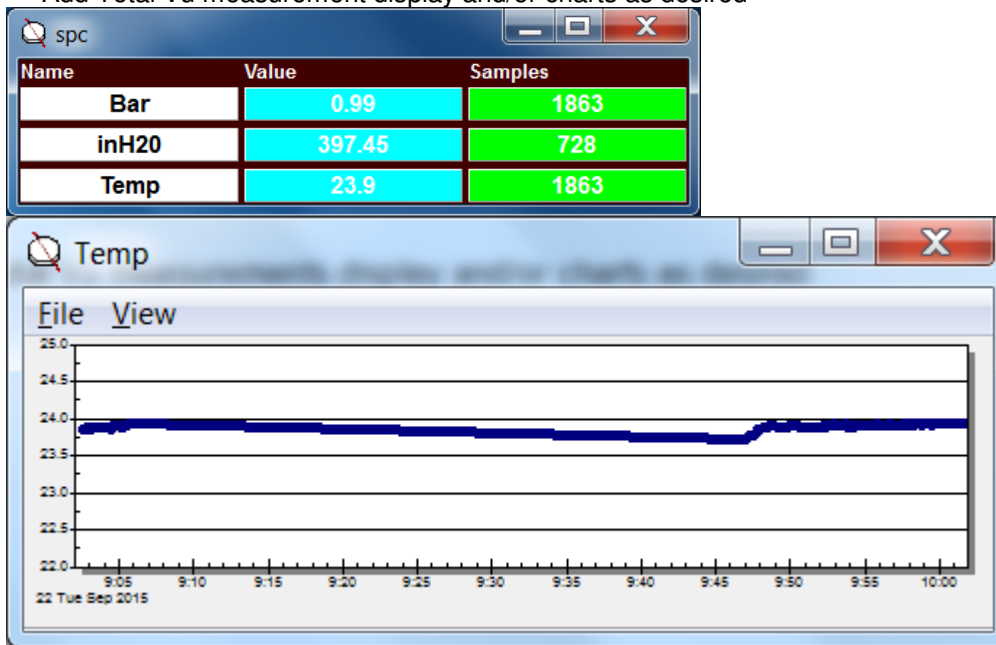


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16. Click Next(s) to finish wizard
17. Create Functional Measurement called *inH2O* to convert BAR to inH2O. In *Full Config/Measurements*, Select *Functional Measurement*. Use *Product* function and constant operand of 401.463.
<http://www.convertunits.com/from/inH2O/to/bar>



18. Add Total Vu measurement display and/or charts as desired



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