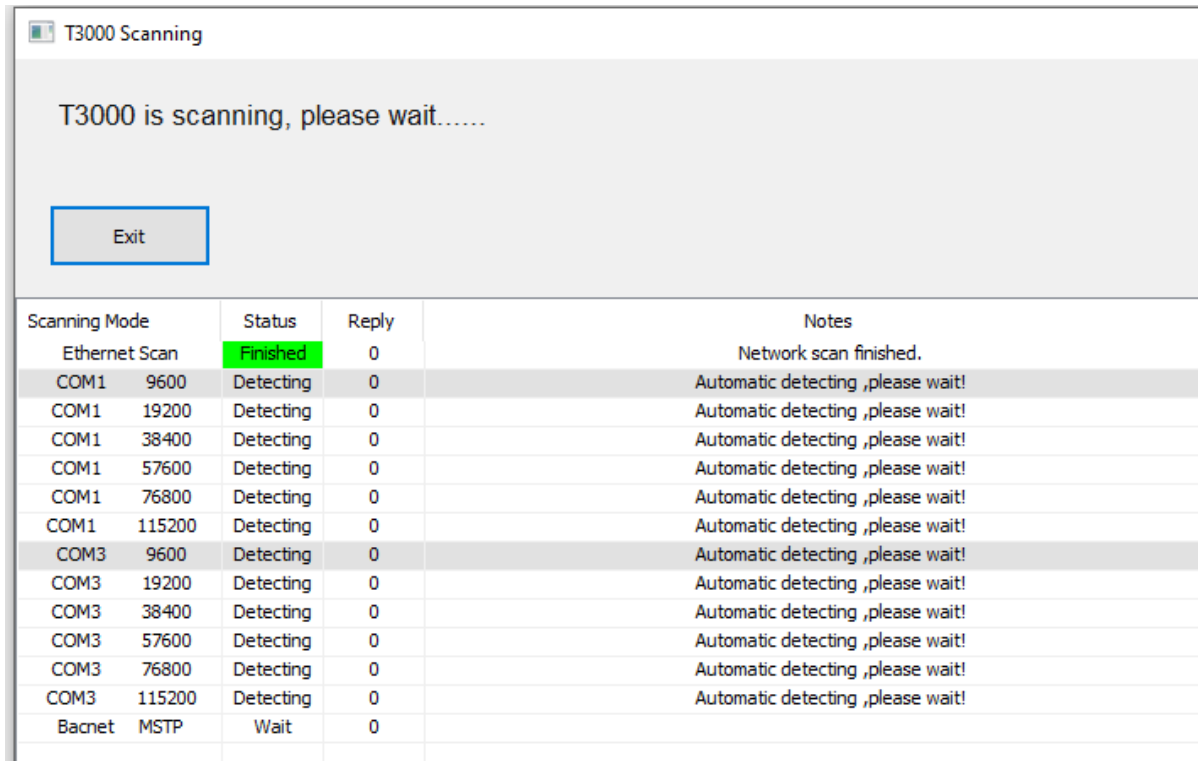


AQ Recover on Modbus and test

Based on Procedure given by temcoSpring on the 16th of march

1.First do a direct connection from your PC to the AQ over RS485, just the AQ sensor and your PC connecting for now.

Result



The screenshot shows a software window titled "T3000 Scanning". At the top, it says "T3000 is scanning, please wait....." and has an "Exit" button. Below this is a table with the following columns: Scanning Mode, Status, Reply, and Notes.

Scanning Mode	Status	Reply	Notes
Ethernet Scan	Finished	0	Network scan finished.
COM1 9600	Detecting	0	Automatic detecting ,please wait!
COM1 19200	Detecting	0	Automatic detecting ,please wait!
COM1 38400	Detecting	0	Automatic detecting ,please wait!
COM1 57600	Detecting	0	Automatic detecting ,please wait!
COM1 76800	Detecting	0	Automatic detecting ,please wait!
COM1 115200	Detecting	0	Automatic detecting ,please wait!
COM3 9600	Detecting	0	Automatic detecting ,please wait!
COM3 19200	Detecting	0	Automatic detecting ,please wait!
COM3 38400	Detecting	0	Automatic detecting ,please wait!
COM3 57600	Detecting	0	Automatic detecting ,please wait!
COM3 76800	Detecting	0	Automatic detecting ,please wait!
COM3 115200	Detecting	0	Automatic detecting ,please wait!
Bacnet MSTP	Wait	0	

COM3 (USB to RS485) is properly detected

T3000 Scanning

T3000 is scanning, please wait.....

Exit

Scanning Mode	Status	Reply	Notes
Ethernet Scan	Finished	0	Network scan finished.
COM1 9600	Finished	0	Scan finished
COM1 19200	Finished	0	Scan finished
COM1 38400	Finished	0	Scan finished
COM1 57600	Finished	0	Scan finished
COM1 76800	Finished	0	Scan finished
COM1 115200	Finished	0	Scan finished
COM3 9600	Finished	0	Scan finished
COM3 19200	Finished	0	Scan finished
COM3 38400	Finished	0	Scan finished
COM3 57600	Finished	0	Scan finished
COM3 76800	Finished	0	Scan finished
COM3 115200	Finished	0	Scan finished

But scan result is empty

Scan Result

SCAN RESULT:

Model	Building	Floor	Room	Sub_net	Serial#	Address	Port	Protocol
-------	----------	-------	------	---------	---------	---------	------	----------

Check the RS485 connection on the AQ side found one wired not properly blocked in terminal.

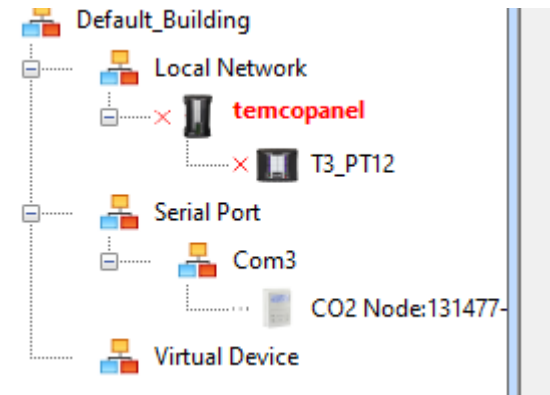
After rewiring: new scan works better

Scanning Mode	Status	Reply	Notes
Ethernet Scan	Finished	0	Network scan finished.
COM1 9600	Finished	0	Scan finished
COM1 19200	Finished	0	Scan finished
COM1 38400	Finished	0	Scan finished
COM1 57600	Wait	0	There is no data on the transmission line!
COM1 76800	Wait	0	There is no data on the transmission line!
COM1 115200	Wait	0	There is no data on the transmission line!
COM3 9600	Finished	0	Garbage data received!
COM3 19200	Finished	0	Garbage data received!
COM3 38400	Finished	0	Garbage data received!
COM3 57600	Finished	0	Bacnet MSTP protocol is detected !
COM3 76800	Finished	0	Garbage data received!
COM3 115200	Finished	0	Garbage data received!
Bacnet MSTP	Wait	0	

T3000 is scanning, please wait..

Exit

Scanning Mode	Status	Reply	Notes
Ethernet Scan	Finished	0	Network scan finished.
COM1 9600	Finished	0	Scan finished
COM1 19200	Finished	0	Scan finished
COM1 38400	Finished	0	Scan finished
COM1 57600	Finished	0	Scan finished
COM1 76800	Finished	0	Scan finished
COM1 115200	Finished	0	Scan finished
COM3 9600	Finished	0	Garbage data received!
COM3 19200	Finished	0	Garbage data received!
COM3 38400	Finished	0	Garbage data received!
COM3 57600	Finished	0	Bacnet MSTP protocol is detected !
COM3 76800	Finished	0	Garbage data received!
COM3 115200	Finished	0	Garbage data received!
Bacnet MSTP	Finished	1	Scan Bacnet mstp.Found 1 BACNET device reply who is



AQ is detected on Bacnet but scan result is empty

Scan Result

SCAN RESULT:

Model	Building	Floor	Room	Sub_net	Serial#	Address	Port	Protocol

After clicking on CO2 node, AQ name come back and status can be read

The screenshot shows a software interface for configuring a building system. On the left, a tree view shows the hierarchy: Default_Building > Local Network > temcopanel > T3_PT12 > Serial Port > Com3 > AQ. The main configuration area includes the following fields:

- Serial Number: 131477
- Modbus ID: 10
- Roll time interval: 0
- Backlight time (On): 0
- Baudrate: 57600
- Protocol: Bacnet MSTP
- Temperature Unit: Deg.C
- The fair alarm ppm setpoint of CO2 sensor: 800
- The poor alarm ppm setpoint of CO2 sensor: 1000

Below these fields are two scroll display panels with radio buttons for 'Show' and 'Hide' options:

- Left Panel:** Temperature, Humidity, CO2, Temperature Setpoint, Humidity Setpoint, CO2 Setpoint, User Message, AQ Value.
- Right Panel:** TX / RX, Alarm, CO2 Status, Temperature, Humidity, CO2, Temperature Setpoint, Humidity Setpoint, CO2 Setpoint, Outdoor Temperature, User Message.

At the bottom, a data table displays the following information:

Name	Value	Unit	Setpoint	Output Value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.0	4-20ma	0	2000	0
Temperature	29.9	Deg.C	0.0	0.9	4-20ma	0.0	100.0	0
Humidity	34.0	%	53.0	0.5	4-20ma	0.0	100.0	0

We have got the confirmation that AQ was properly changed to Bacnet with Baudrate 57600!

No chance to be detected though Nano which never scan 57600 Bds...

2.Switch the protocol from BACnet MSTP to Modbus and then set the baud rate to 115200.

Serial Number : 131477 Baudrate : 57600 The fair alarm ppm setpoint of CO2 sensor : 800

Modbus ID : 10 Protocol : Modbus RS485 The poor alarm ppm setpoint of CO2 sensor : 1000

Roll time interval : 0 Temperature Unit : Deg.C OK

Backlight time (On): 0

Scroll Display

	Show	Hide
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input checked="" type="radio"/>	<input type="radio"/>
CO2	<input checked="" type="radio"/>	<input type="radio"/>
Temperature Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
Humidity Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
User Message	<input checked="" type="radio"/>	<input type="radio"/>
AQ Value	<input checked="" type="radio"/>	<input type="radio"/>

Name	Value	Unit	Setpoint	Output value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.0	4-20ma	0	2000	0
Temperature	30.3	Deg.C	0.0	1.3	4-20ma	0.0	100.0	0
Humidity	33.6	%	53.0	0.7	4-20ma	0.0	100.0	0

Change baudrate failed!

OK

Retry change baud rate without more success

Try to connect with modbus Poll without success (baudrate presetted to 57600)

Try a scan with discovery tool

Scan Result

SCAN RESULT:

Model	Building	Floor	Room	Sub_net	Serial#	Address	Port	Protocol
AQ	fault_Buildi	floor1	room1	fault_Buildi	131477	10	COM3	Modbus 485

Default_Building

- Local Network
 - temcopanel
 - T3_PT12
- Serial Port
 - Com3
 - AQ
- Virtual Device

Serial Number :

Modbus ID :

Roll time interval :

Backlight time (On):

Baudrate :

Protocol :

Temperature Unit :

The fair alarm ppm setpoint of CO2 sensor :

The poor alarm ppm setpoint of CO2 sensor :

	Show	Hide
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input checked="" type="radio"/>	<input type="radio"/>
CO2	<input checked="" type="radio"/>	<input type="radio"/>
Temperature Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
Humidity Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
User Message	<input checked="" type="radio"/>	<input type="radio"/>
AQ Value	<input checked="" type="radio"/>	<input type="radio"/>

	Show	Hide
TX / RX	<input checked="" type="radio"/>	<input type="radio"/>
Alarm	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Status	<input checked="" type="radio"/>	<input type="radio"/>
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input checked="" type="radio"/>	<input type="radio"/>
CO2	<input checked="" type="radio"/>	<input type="radio"/>
Temperature Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Humidity Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Outdoor Temperature	<input type="radio"/>	<input checked="" type="radio"/>
User Message	<input type="radio"/>	<input checked="" type="radio"/>

Name	Value	Unit	Setpoint	Output Value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.2	4-20ma	0	2000	0
Temperature	31.2	Deg.C	0.0	0.5	4-20ma	0.0	100.0	0
Humidity	32.9	%	53.0	0.6	4-20ma	0.0	100.0	0

So in fact, popup saying changed failed is wrong!!!! Connection is lost because T3000 did not change his baudrate

3.This is the right time to try the reset of factory settings

The screenshot shows the Temco Modbus Poll software interface. The title bar reads 'Temco Modbus Poll - ModbusPoll1'. The menu bar includes 'File', 'Edit', 'Connection', 'Setup', 'Functions', 'Display', 'View', 'Window', and 'Help'. The toolbar contains various icons, with the 'Settings' icon (a gear) highlighted. The main window displays 'ModbusPoll1' with the following information: 'Model Name: Tx=5: Err=1: ID=10: F=03: Tx=1000ms' and a red 'NO CONNECTION' message. Below this is a table with columns 'Description', 'Address', and 'Value'. A dialog box titled 'Modbus Poll' is open, displaying a yellow warning triangle and the text 'Port0 Can't open' with an 'OK' button.

	Description	Address	Value
0		169	0
1		170	0
2		171	0
3		172	0
4		173	0
5		174	0
6		175	0
7		176	0
8		177	0
9		178	0

Trying to use the T3000 modbus poll but not working....

As I saw that TemcoSpring is using another version, I try with the official modbustool version (evaluation licence)

There I can choose the speed and get the connection, reading REG 169 to 178

Modbus Poll - Mbpoll1

File Edit Connection Setup Functions Display View Window Help

05 06 15 16 17 22 23 TC

Mbpoll1

Tx = 11: Err = 1: ID = 10: F = 03: SR = 1000ms

	Alias	00160	Alias	00170
0				447
1				0
2				0
3				0
4				-934
5				778
6				0
7				2000
8				3
9		503		

Writing the registers for reset to factory settings following indication from TemcoSpring in his procedure from last week

The screenshot shows the Modbus Poll software interface. The main window displays a table of data points. A status bar at the top indicates 'Tx = 176: Err = 1: ID = 10: F = 03: SR = 1000ms'. A dialog box titled 'Write Single Register' is open, showing the configuration for writing a value to a specific register.

	Alias	00160	Alias	00170
0				139
1				0
2				0
3				0
4				-934
5				778
6				0
7				2000
8				3
9		259		

Write Single Register

Slave ID:

Address:

Value:

Result
N/A

Close dialog on "Response ok"

Use Function

06: Write single register

16: Write multiple registers

Reading the AQ status after factory setting reset

Serial Number :

Modbus ID :

Roll time interval :

Backlight time (On):

Baudrate :

Protocol :

Temperature Unit :

The fair alarm ppm setpoint of CO2 sensor :

The poor alarm ppm setpoint of CO2 sensor :

OK

	Show	Hide
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input checked="" type="radio"/>	<input type="radio"/>
CO2	<input type="radio"/>	<input checked="" type="radio"/>
Temperature Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Humidity Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
CO2 Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
User Message	<input type="radio"/>	<input checked="" type="radio"/>
AQ Value	<input checked="" type="radio"/>	<input type="radio"/>

	Show	Hide
TX / RX	<input checked="" type="radio"/>	<input type="radio"/>
Alarm	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Status	<input type="radio"/>	<input checked="" type="radio"/>
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input type="radio"/>	<input checked="" type="radio"/>
CO2	<input type="radio"/>	<input checked="" type="radio"/>
Temperature Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Humidity Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
CO2 Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Outdoor Temperature	<input type="radio"/>	<input checked="" type="radio"/>
User Message	<input type="radio"/>	<input checked="" type="radio"/>

Name	Value	Unit	Setpoint	Output Value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.0	4-20ma	0	2000	0
Temperature	30.0	Deg.C	0.0	0.5	4-20ma	0.0	100.0	0
Humidity	32.3	%	54.0	0.4	4-20ma	0.0	100.0	0

4. Keypad trouble are not solved by Factory setting reset

Nothing seems to be changed except radio button selection.

Setpoint registers are kept

Temperature SP was not 0 at factory setting as far as I remember.

Trying the keypad to see if change the Temperature SP is now possible... No chance, the SP display is not coming anymore when pressing the Left/Right arrows

Trying to change the show/hide selection of first frame for T SP and H SP but no effect on AQ...

But It seems now possible to change the Setpoint from the T3000 status grid

Serial Number :

Modbus ID :

Roll time interval :

Backlight time (On):

Baudrate :

Protocol :

Temperature Unit :

The fair alarm ppm setpoint of CO2 sensor :

The poor alarm ppm setpoint of CO2 sensor :

Show Hide

Temperature

Humidity

CO2

Temperature Setpoint

Humidity Setpoint

CO2 Setpoint

User Message

AQ Value

Scroll Display

Show Hide

TX / RX

Alarm

CO2 Status

Temperature

Humidity

CO2

Temperature Setpoint

Humidity Setpoint

CO2 Setpoint

Outdoor Temperature

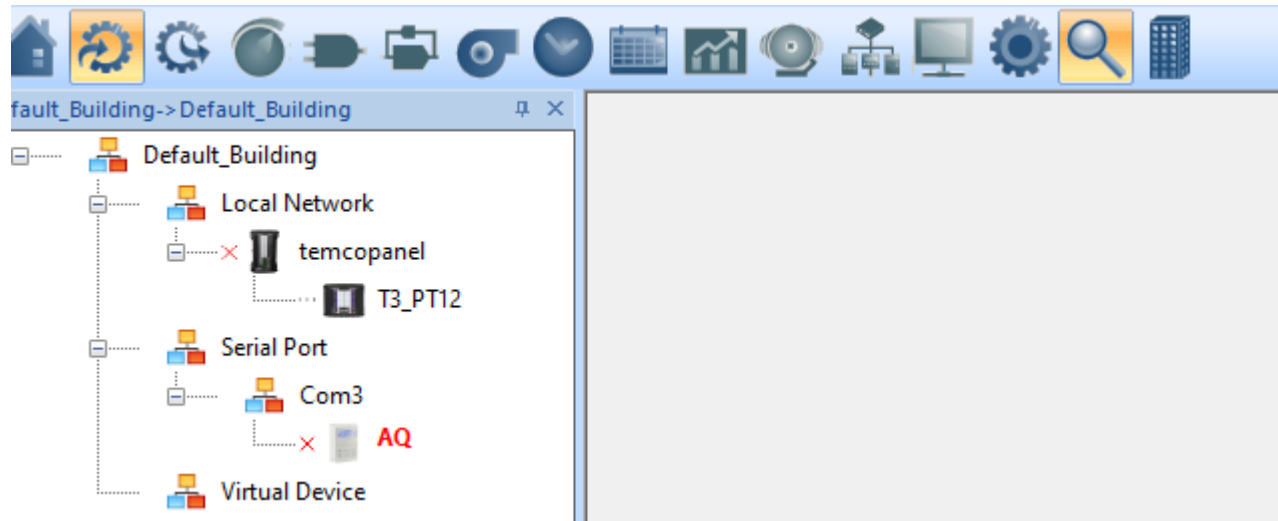
User Message

Name	Value	Unit	Setpoint	Output Value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.0	4-20ma	0	2000	0
Temperature	30.0	Deg.C	30.0	0.5	4-20ma	0.0	100.0	0
Humidity	32.3	%	54.0	0.4	4-20ma	0.0	100.0	0

And when changing from 0.0 to 30.0, display of temp SP changed in the scrolling display

5.Next step is to connect again AQ on the Nano Subnet like the PT12

First scan give PT12 detected but not the Nano nor AQ



How is it possible that the T3000 can see the PT12 though the Nano but not the Nano itself?

Perhaps an effect of the Nano routing...

Retry a second scan

Scan Result

SCAN RESULT:

Model	Building	Floor	Room	Sub_net	Serial#	Address	Port	Protocol
temcopanel	fault_Buildi	Floor1	Room1	Sub_net1	131370	192.168.1.19	502	TCP/IP
T3_PT12	fault_Buildi	Floor1	Room1	Sub_net1	129893	192.168.1.19	502	TCP/IP
AQ	fault_Buildi	Floor1	Room1	Sub_net1	131477	192.168.1.19	502	TCP/IP

Here all Temco devices are showing

6.Next step is to read the AQ measurement and Setpoint from the Control basic program to be able to use them .

I will reactivate a simple program copying Registers 136 137 167 168 to some VARS. This program was already encoded in PRG2 but was deactivated to avoid disturbing others tests. Here are the VAR and PRG definitions

Variable	Full Label	Auto/Manual	Value	Units	Label
VAR 1		Auto	28.352	Deg.C	F14
VAR 2		Auto	28.342	Deg.C	P14
VAR 3		Manual	3.000	Unused	AQ_T
VAR 4		Manual	4.000	Unused	AQ_H
VAR 5		Manual	5.000	Unused	AQ_AQ
VAR 6		Auto	6.000	Unused	CT
VAR 7		Manual	7.000	Unused	AQ_TSP
VAR 8		Manual	8.000	Unused	
VAR 9		Manual	9.000	Unused	
VAR 10		Auto	Off	On/Off	BLINK
VAR 11		Auto	On	On/Off	COIL
VAR 12		Auto	Start	Start/Stop	C1
VAR 13		Auto	Start	Start/Stop	C2
VAR 14		Auto	Start	Start/Stop	C3
VAR 15		Auto	Start	Start/Stop	C4
VAR 16		Auto	Alarm	Alarm/Normal	F1
VAR 17		Auto	Normal	Normal/Alarm	F2
VAR 18		Auto	0.000	Unused	F3
VAR 19		Auto	0.000	Unused	F4
VAR 20		Auto	0.000	Unused	

AQ Vars 3 to 7 were forced to manual to make tests reading values from raspberry using codesys.

Program	Full Label	Status	Auto/Manual	Size	Run Status	Label
<input checked="" type="checkbox"/> 1	FILTER	ON	Auto	182	Normal	
<input type="checkbox"/> 2	AQ_READ	OFF	Auto	107	Normal	
<input type="checkbox"/> 3	TO4	OFF	Auto	136	Normal	

VARS F14 & P14 are generated by PRG1 based on T14 read on PT12 IN2

Input	Panel	Full Label	Auto/Manual	Value	Units	Range	Calibration	Sign	Filter	Status	Signal Type	Label	External	Product Name	Product Input
IN1	3-254	AI0	Manual	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI0	External	T3-PT12	Input 1
IN2	3-254	T14 bureau test	Auto	28.05	Deg.C	G3K -40 to 120	0.0	+	1	Normal	Thermistor Dry...	T14	External	T3-PT12	Input2
IN3	3-254	AI3	Manual	-255.26	Deg.C	G3K -40 to 120	0.0	+	10	Open	Thermistor Dry...	T15	External	T3-PT12	Input3
IN4	3-254	AI3	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI3	External	T3-PT12	Input4
IN5	3-254	AI4	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI4	External	T3-PT12	Input5
IN6	3-254	AI5	Manual	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI5	External	T3-PT12	Input6
IN7	3-254	AI6	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI6	External	T3-PT12	Input7
IN8	3-254	AI7	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI7	External	T3-PT12	Input8
IN9	3-254	AI8	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI8	External	T3-PT12	Input9
IN10	3-254	AI9	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI9	External	T3-PT12	Input10
IN11	3-254	AI10	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI10	External	T3-PT12	Input11
IN12	3-254	AI11	Auto	-255.26	Deg.C	G3K -40 to 120	0.0	+	1	Open	Thermistor Dry...	AI11	External	T3-PT12	Input12

Panel: 3 Program : 1 Name : PRG1

Send (F2) Clear (F3) Load File (F7) Save File (F6) Refresh (F8) Settings

```

10 REM TESTING FILTER AND FORECAST ON MESUREMENT
20 IF INTERVAL ( 00:00:01 ) THEN GOSUB 100
60 END
100 REM FILTERING
110 F14 = ( T14 - F14 ) / CT + F14
120 P14 = ( T14 - F14 ) * 2 + F14
130 F13 = ( T13 - F13 ) / CT + F13
130 P13 = ( T13 - F13 ) * 2 + F13
200 RETURN

```

Panel: 3 Program : 2 Name : PRG2

Send (F2) Clear (F3) Load File (F7) Save File (F6) Refresh (F8) Settings

```

10 REM READ DATA FROM AQ SENSOR
20 AQ_H = 3.10MB_REG137
30 AQ_T = 3.10MB_REG136
40 REM AQ_AQ = 3.10MB_REG184
50 AQ_TSP = 3.10MB_REG167
55 AQ_AQ = AQ_AQ + 0.010
60 END

```

PRG2 is supposed to read data from AQ, Line 55 is used to see if program is executed

3.10MB_REGxxx is because AQ is ID10 on panel 3, am I right?

PRG3 is trying to read coils status from met connect triac output module (ID38)


Panel : 3 Program : 3 Name : PRG3

Send (F2) Clear (F3) Load File (F7) Save File (F6) Refresh (F8) Settings

```
10 REM TEST COMM TO MR-TO4
20 C1 = 3.38MB_COIL1
30 C2 = 3.38MB_COIL2
40 C3 = 3.38MB_COIL3
50 C4 = 3.38MB_COIL4
60 F1 = 3.38MB_COIL5
70 F2 = 3.38MB_COIL6
80 F3 = 3.38MB_COIL7
90 F4 = 3.38MB_COIL8
140 IF INTERVAL ( 00:00:10 ) THEN BLINK = NOT BLINK
100 END
```


Line 140 is used to check that this program is really running or not

So I activated the PRG2

 PROGRAM

Program	Full Label	Status	Auto/Manual	Size	Run Status	Label
<input type="checkbox"/> 1	FILTER	ON	Auto	182	Normal	
<input checked="" type="checkbox"/> 2	AQ_READ	ON	Auto	107	Normal	
<input type="checkbox"/> 3	TO4	OFF	Auto	136	Normal	
<input type="checkbox"/> 4		ON	Auto	0	Normal	

And checked VARS after switching them back to AUTO

 VARIABLE

Variable	Full Label	Auto/Manual	Value	Units	Label
VAR1		Auto	28.259	Deg.C	F14
VAR2		Auto	28.239	Deg.C	P14
VAR3		Auto	3.000	Unused	AQ_T
VAR4		Auto	4.000	Unused	AQ_H
VAR5		Auto	5.000	Unused	AQ_AQ
VAR6		Auto	6.000	Unused	CT
VAR7		Auto	7.000	Unused	AQ_TSP
VAR8		Manual	8.000	Unused	

But values of VAR 3 to VAR7 are not refreshed

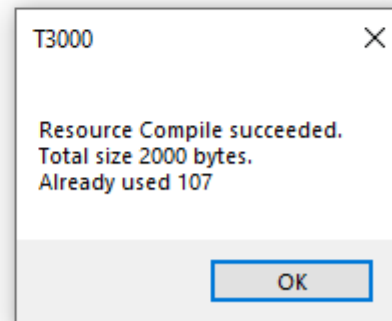
So activating PRG2 seems not enough


Trying recompile PRG2

Panel : 3 Program : 2 Name : PRG2

Send (F2) Clear (F3) Load File (F7) Save File (F6) Refresh (F8) Settings

```
10 REM READ DATA FROM AQ SENSOR
20 AQ_H = 3.10MB_REG137
30 AQ_T = 3.10MB_REG136
40 REM AQ_AQ = 3.10MB_REG184
50 AQ_TSP = 3.10MB_REG167
55 AQ_AQ = AQ_AQ + 0.010
60 END
```



 VARIABLE

Variable	Full Label	Auto/Manual	Value	Units	Label
VAR1		Auto	28.238	Deg.C	F14
VAR2		Auto	28.216	Deg.C	P14
VAR3		Auto	0.000	Unused	AQ_T
VAR4		Auto	0.000	Unused	AQ_H
VAR5		Auto	6.010	Unused	AQ_AQ
VAR6		Auto	6.000	Unused	CT
VAR7		Auto	0.000	Unused	AQ_TSP

So now PRG2 is really executed

But register from AQ are not properly read.

So please advice for the good syntax to do this

7.Recheck the AQ status before trying to read/write AQ register from Modbus Poll

Serial Number : Baudrate : The fair alarm ppm setpoint of CO2 sensor :

Modbus ID : Protocol : The poor alarm ppm setpoint of CO2 sensor :

Roll time interval : Temperature Unit :

Backlight time (On):

Scroll Display

	Show	Hide
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input checked="" type="radio"/>	<input type="radio"/>
CO2	<input type="radio"/>	<input checked="" type="radio"/>
Temperature Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
Humidity Setpoint	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
User Message	<input type="radio"/>	<input checked="" type="radio"/>
AQ Value	<input checked="" type="radio"/>	<input type="radio"/>

	Show	Hide
TX / RX	<input checked="" type="radio"/>	<input type="radio"/>
Alarm	<input checked="" type="radio"/>	<input type="radio"/>
CO2 Status	<input type="radio"/>	<input checked="" type="radio"/>
Temperature	<input checked="" type="radio"/>	<input type="radio"/>
Humidity	<input type="radio"/>	<input checked="" type="radio"/>
CO2	<input type="radio"/>	<input checked="" type="radio"/>
Temperature Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Humidity Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
CO2 Setpoint	<input type="radio"/>	<input checked="" type="radio"/>
Outdoor Temperature	<input type="radio"/>	<input checked="" type="radio"/>
User Message	<input type="radio"/>	<input checked="" type="radio"/>

Name	Value	Unit	Setpoint	Output Value	Range	Output Min Value	Output Max Value	Calibration
CO2	0	ppm	81	0.9	4-20ma	0	2000	0
Temperature	31.8	Deg.C	30.0	0.5	4-20ma	0.0	100.0	0
Humidity	31.8	%	54.0	1.0	4-20ma	0.0	100.0	0

Read values with Modbus poll

Mbpoll1

Tx = 130: Err = 0: ID = 10: F = 03: SR = 1000ms

	Alias	00130	Alias	00140	Alias	00150	Alias	00160
0				10		2		65
1				0		2		129
2				10		0		552
3				7		49		149
4				20801		50		92
5				4112		51		559
6	AQ_T	318		203		52		81
7	AQ_H	317		0		0	T_SP	300
8		0		0		0	H_SP	540
9		15		0		16		307

Alias were added manually to show were registers are supposed to be. This comply with the AQ documentation and is coherent from the reading on the scrolling display and status windows in T3000.