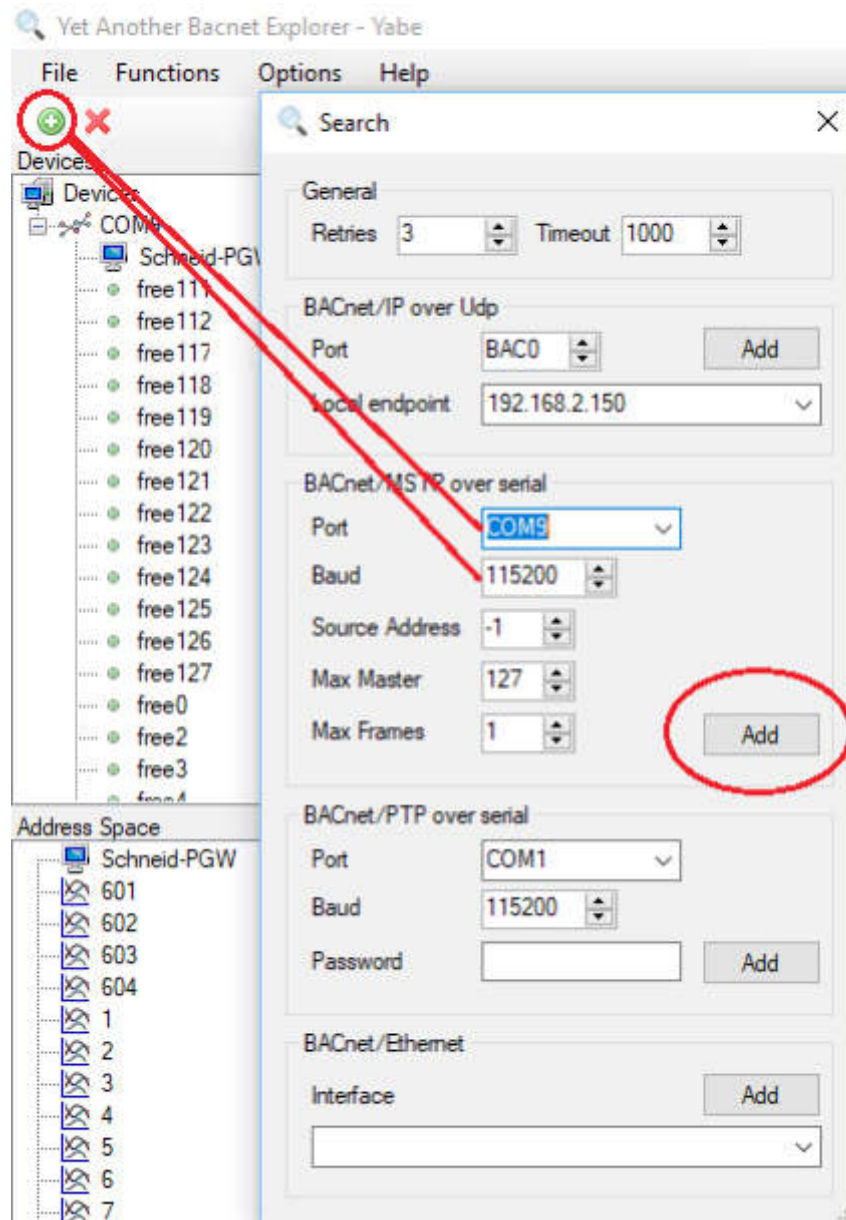


# Plug-in card module CM08-PGW

## Configuration:

Yabe Bacnet Explorer

<https://sourceforge.net/projects/yetanotherbacnetexplorer/>



The module must appear by itself.  
Confirm the first dialog with OK.

All data records that are available for each device can be displayed with "Subscribe".  
Only those that are current appear in the list.

# Plug-in card module CM08-PGW

The screenshot shows the 'Yet Another Bacnet Explorer' interface. On the left, the 'Devices' tree shows 'Schneid-PGW [8054]' selected. Below it, the 'Address Space' shows a list of objects from 601 to 617. A red circle highlights the 'Subscribe' button next to object 617. A red arrow points from this button to the 'Subscriptions, Periodic Polling, Events/Alarms' table on the right. A blue arrow points from the 'Schneid-PGW [8054]' device to the table.

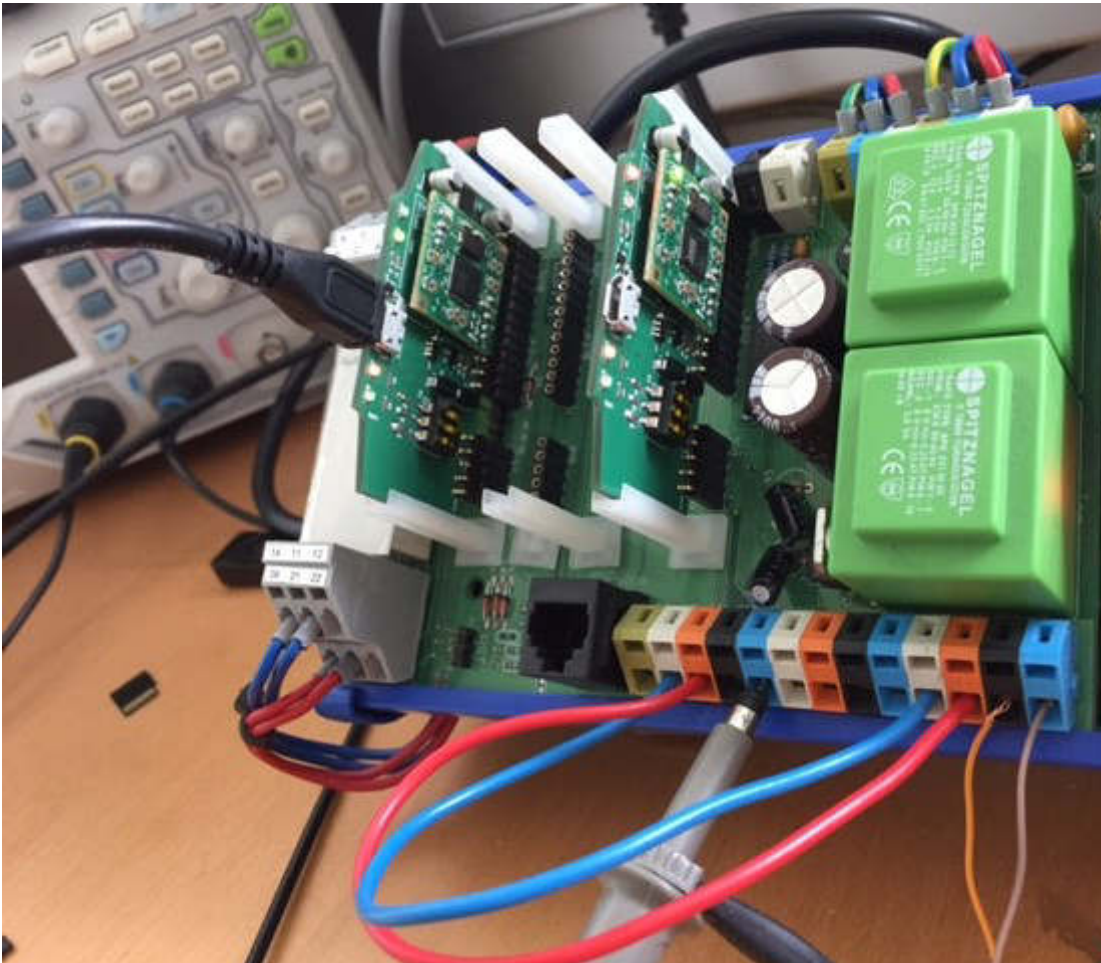
Device	ObjectId	Name	Value	Time	Status
1-8054	OBJECT_ANALOG_INPUT:601	601	0.8	15:28:44	OK
1-8054	OBJECT_ANALOG_INPUT:602	602	43	15:28:45	OK
1-8054	OBJECT_ANALOG_INPUT:603	603	48	15:28:40	OK
1-8054	OBJECT_ANALOG_INPUT:604	604	68.2	15:28:45	OK
1-8054	OBJECT_ANALOG_VALUE:1	1	2	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:2	2	2	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:3	3	1	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:4	4	1	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:5	5	1	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:6	6	0	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:7	7	0	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:8	8	0	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:9	9	0	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:10	10	2	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:11	11	2	15:28:22	OK
1-8054	OBJECT_ANALOG_VALUE:12	12	0	15:28:22	OK
1-8054	OBJECT_BINARY_OUTPUT:617	617 Pumpe HKD	0	15:28:22	OK

In the address space; where the objects appear; parameters (Present Value) can also be written back to the controller.

## Plug-in card module CM08-PGW

### Settings in the ICC studio:

Experiment setup with 2 PGWs (COM-A and COM-C) on the MR08 controller  
Baud rate 19200 addr. 1 (A + C)



- The settings are made offline with the ICC Studio.
- **! Important !** always save before downloading.
- If the module is connected via USB and in the online program, the settings are saved on the PC with upload and must be edited offline.
- Any number of modules can be described with download.
- In "Network - BACNET - NODE" the MAC address may only appear once (0-127).
- Max. 240 BACNET objects are assigned, the rest are transferred as Default BACNET mapping, so can only be displayed by the remote site if the instance ID is known (data point list).
- Objects that are entered in the list can be found by broadcast (including designation / unit / and multiplier).

# Plug-in card module CM08-PGW

Example AT from the MR08 controller on the BACNET side:

	Ar	Available Items
Analog Value - 6	Object Name	601 Aussenfühler
Analog Value - 7	Instance	601
Analog Value - 8	Database Address	1200
Analog Value - 9	Data Type	16-Bit Signed
Analog Value - 10	Multiplier	0.1
Analog Value - 11	Units	No Units
Analog Value - 12	Unit Value	
Analog Input - 601 Aussenfühler	Default COV Increment	0
Analog Input - 602		
Analog Input - 603		

- Object Name: Must be unique in the node, can be text, or just numbers.
- Instance: Must be unique in the node, is practically a data point ID.
- Database address: The reference where the value is stored in the module (host setting).
- Data Type: 2-byte signed as specified via Modbus (tool data has 32-bit 4-byte, for example).
- Multiplier: 0.1 will be transmit on the Modbus for twelve and a half degrees 125.
- Unit: unit in this case Celsius.
- Default COV Increment: Specifies the change in the value at which it should be resent, 0 means with each change, 10 would mean that the change should only be resent when there is a 1K change.

Example host side: MR08 actual values from data point 601

Project	Input Register Service Object - VAL700 Settings	
Binary Output - 627	Description	VAL700
Default BACnet Mapping	Destination Address	1
Host	Start Register	601
Modbus RTU Master	Number of Registers	100
Input Register Service Object - VAL700	Database Address	1200
Holding Register Service Object - Par100	Multiplier	1
Holding Register Service Object - Par200	Read Function	4 (Read Input Registers)
Holding Register Service Object - Par300	Data Type	16-Bit Unsigned
Holding Register Service Object - Par400	32-Bit Options	
Holding Register Service Object - Par500	32-Bit Registers	<input type="checkbox"/>
Holding Register Service Object - Par600	Floating Point	<input type="checkbox"/>
Input Register Service Object - VAL800	Big Endian	<input type="checkbox"/>
Input Register Service Object - VAL900	Word-Size Register	<input checked="" type="checkbox"/>
I/O		

Holding registers can also be sent back from the BACNET site.

**! Important !** Write Function 6 (since a multiset on the controller is not possible).

# Plug-in card module CM08-PGW

Example MR08 actual values and parameters via Modbus:

The screenshot displays the Modbus configuration interface. On the left, a tree view shows the project structure under 'Modbus RTU Master', listing various 'Holding Register Service Object' and 'Input Register Service Object' configurations. The main window shows a 'Diagnostics Object' configuration with fields for Description, Destination Address, Start Register, Number of Registers, Database Address, Multiplier, Read Function, Write Function, Group Multiple Writes, Data Type, 32-bit Options, and Floating Point. Below this is an 'Object List' table summarizing the configurations.

Object Type	Description	Destination Address	Start Register	Number of Registers	Start Col	Number of Cols	Start Input	Number of Inputs	Database Address	Multiplier	Read Function
Input Register Service Object	VAL700	1	851	100	N/A	N/A	N/A	N/A	1200	1	4 (Read Input Registers)
Holding Register Service Object	Par100	1	1	100	N/A	N/A	N/A	N/A	0	1	3 (Read Holding Registers)
Holding Register Service Object	Par200	1	101	100	N/A	N/A	N/A	N/A	200	1	3 (Read Holding Registers)
Holding Register Service Object	Par300	1	201	100	N/A	N/A	N/A	N/A	400	1	3 (Read Holding Registers)
Holding Register Service Object	Par400	1	301	100	N/A	N/A	N/A	N/A	600	1	3 (Read Holding Registers)
Holding Register Service Object	Par500	1	401	100	N/A	N/A	N/A	N/A	800	1	3 (Read Holding Registers)
Holding Register Service Object	Par600	1	501	100	N/A	N/A	N/A	N/A	1000	1	3 (Read Holding Registers)
Input Register Service Object	VAL800	1	701	100	N/A	N/A	N/A	N/A	1400	1	4 (Read Input Registers)
Input Register Service Object	VAL900	1	701	100	N/A	N/A	N/A	N/A	1600	1	4 (Read Input Registers)

Settings included in MR08\_Modbus\_Bacnet.icsproj.

### !Important!

Deactivate or delete all I / O settings, otherwise database registers will be overwritten.

### !Important!

The following settings must match in DeviceConfiguration -> PicoPort.

The screenshot shows the 'PicoPort - CM08-PGW2 Settings' dialog box. The 'Device Configurations' tree on the left is expanded to 'Internal Parameters' > 'Network Configuration Parameters'. The settings on the right are:

- Description: CM08-PGW2
- Product ID: 2101
- Database Endianness: Little Endian (highlighted with a red box)
- Default Network Protocol: Automatic
- Auto Run:  (highlighted with a red box)
- Configuration Locking:
- Enable Lock:
- User Name: [Empty]
- Password: [Empty]
- Status LED: [Empty]
- Status LED Control: Default
- Port: Host
- Database Address: [Empty]

- Database Little Endian
- Default Network on Automatic
- AutoRUN activ!

# Plug-in card module CM08-PGW

To check whether the values arrive at the Modbus, the database can be displayed via USB:

The screenshot shows the Schneider Modbus database interface. The main window displays a table of data points with the following columns: Address, 0, 2, 4, 6, 8, 10, 12, 14. The data points are as follows:

Address	0	2	4	6	8	10	12	14
0	3	2	1	1	1	0	0	0
16	0	2	2	0	0	0	88	150
32	15	101	50	101	3	0	0	0
48	0	10	30	1	23	-5	0	20
64	40	1	5	3	3	-5	15	30
80	70	100	80	50	99	15	3	1
96	120	0	3	88	1	1	10	50
112	30	101	0	5	0	0	1	100
128	0	8	0	0	80	86	0	0
144	1	1	1	7	0	1	7	0
160	35	43	88	85	85	0	3	0

- The values can also be changed by clicking (they are also sent to the controller).
- If the controller no longer delivers data, values can also be written in and it is updated on the BACNET.

## Scope of delivery:

SCHNEID plug-in card module CM08-PGW

## Technical specifications:

Intrastat Number:	8537.10.91.90
Country of origin	EU/AT
Height, width, depth (in mm)	37x65x8
Weight (in kg)	0,012
Degree of protection	IP-00
Ambient temperature	0°C....+40°C
Operating voltage	5VDC
Power consumption	75mA
Max baud rate	115200 Bit/s
Connection type	Pin headers for base module
Mounting type	Plug-in card module
Operating time	Continuous operation
Degree of pollution	2