

Quick guide for basic settings of Climatix controller

2. Sheet – HMI - Climatix controller
3. Sheet – TCP-IP communication setup
4. Sheet – Alarm list – alarm confirmation
5. Sheet – Auxiliary mode check
6. Sheet – Required temperatur setup
7. Sheet – Mixing damper setup
8. Sheet – Fan speed setup
9. Sheet - Setup of BACnet communication – external module POL908
10. Sheet - Web access to BACnet/IP module
11. Sheet - Loading EDE file from BACnet/IP module
12. Sheet - Setting of Modbus TCP/IP communication - Integrated
13. Sheet - Setting of Modbus RTU communication - Integrated
14. Sheet - Setup of Modbus RTU communication – external module POL902



Note:

If necessary, more detailed instructions for operating the Climatix controller can be found here:

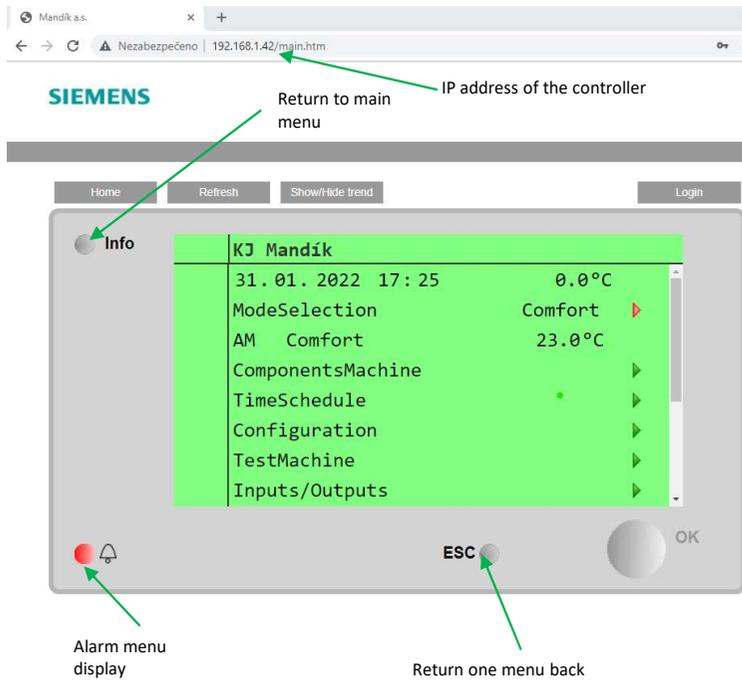
<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>



Quick Start/Setup

HMI – Climatix controller

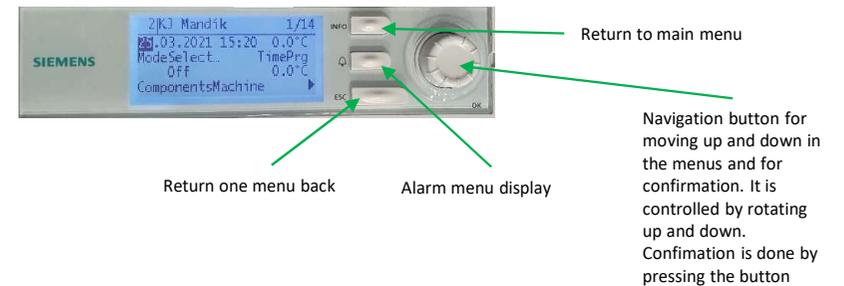
Main menu of climatix regulator with web server visualisation



Expansion display for Climatix controller POL871



Climatix controller display



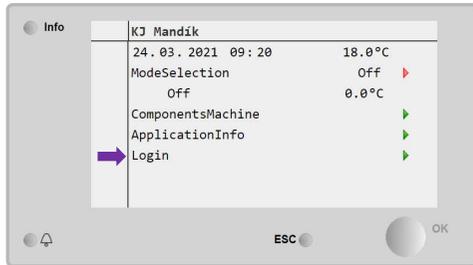
Display of the Climatix controller note :

Climatix controller display, its expansion displays and climatix web server use same basic visualization, this means all the menus have same structure and values on all of the displays only difference is in number of lines displayed on each of types of display.

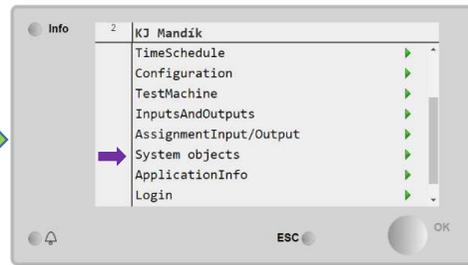
Quick Start/Setup

TCP-IP communication setup

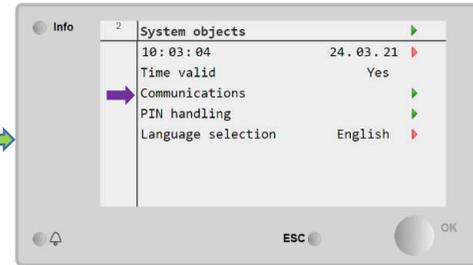
1. Step – Login – Password:2222



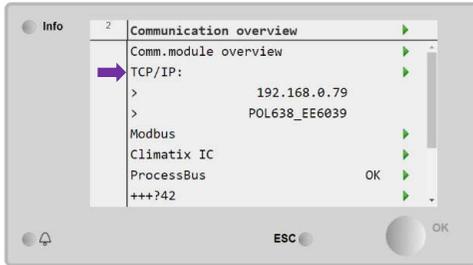
2. Step – System objects



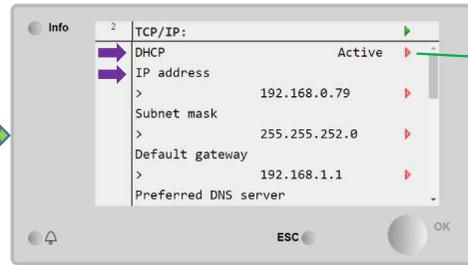
3. Step – Communications



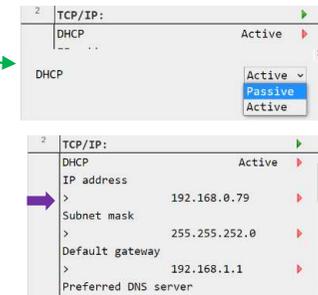
4. Step – TCP/ IP



5. Step – IP address setup



DHCP and IP address setup



DHCP Passiv

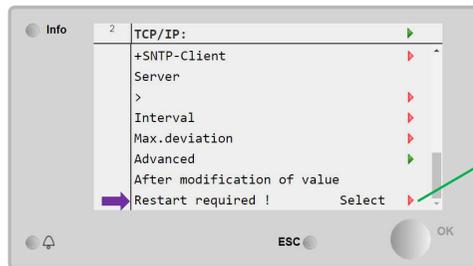
- For setup of fixed IP address
- Fixed IP address is mainly used for direct ethernet connection to the unit (for example with notebook)

IP Address – Fixed IP address change

- Default factory IP address is 192.168.1.42

6. Step – Restart

– in TCP/IP menu scroll down



After each change in TCP/IP menu you need to restart the unit



Controller without connection to internet:

Software:

Setup fixed IP address by setting DHCP to passive.
Restart of the unit, look for actual IP address on controller.

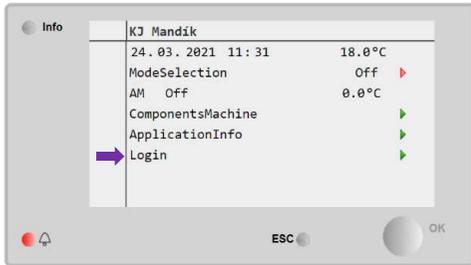
Hardware:

Connection between controller and for example notebook by ethernet cable with RJ45 connector.

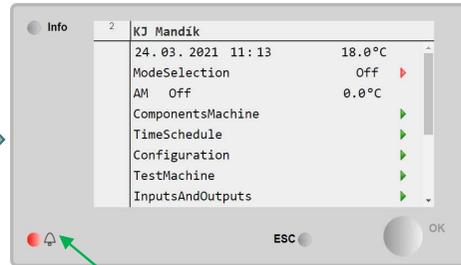
Quick Start/Setup

Alarm list – Alarm confirmation

1. Step – Login - 2222

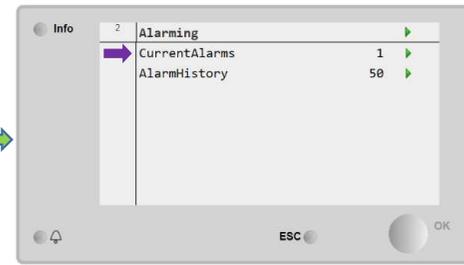


2. Step – Bell symbol



Bell symbol (button on controller)

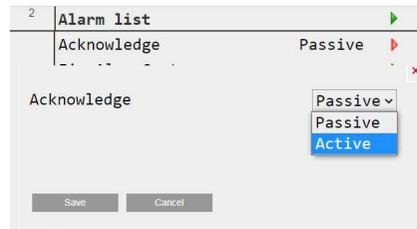
3. Step – Alarm menu



4. Step – Alarm list(confirmation of alarms)



5. Step – Acknowledge/ Active



Description:

If the bell symbol flashes, it means that there is a new alarm on the unit that has not yet been acknowledged. If the alarm does not disappear after acknowledging the alarm, it means that the problem that caused the alarm still persists. First you need to solve the problem that caused the alarm and then acknowledge it again. Some alarms do not need to be acknowledged, by resolving the problem or by change of the conditions that caused the alarm, the alarms will automatically disappear.

Note:

The fault is indicated on the controller display by a bell symbol in the upper right corner. The alarm menu is accessed by using the button with the bell symbol.

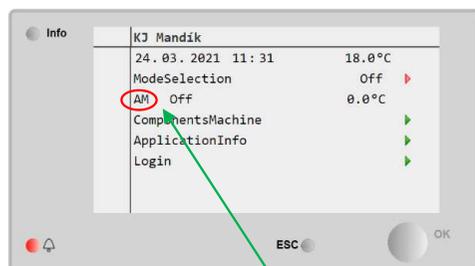
Note2:

A list of possible alarms and their meaning can be found in the Climatix controller manual. You can find the manual at:

<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>

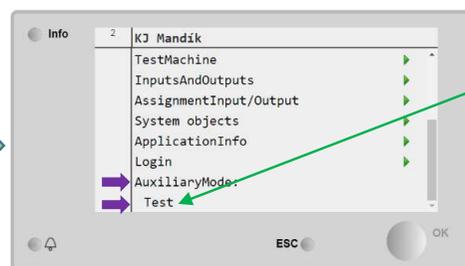


1. Step – Login - 2222



Indication of active auxiliary mode

2. Step – AuxiliaryMode



Description:

Auxiliary mode displays if one of the special operating modes is active, such as: dehumidification / humidification, increased CO2 level or like here mode "TEST", when the unit's test mode is active.

Note:

If the unit behaves abnormally, in addition to the alarm list, the auxiliary mode must also be checked.

Note2:

A list of possible auxiliary modes and their meaning can be found in the Climatix controller manual. You can find the manual at:

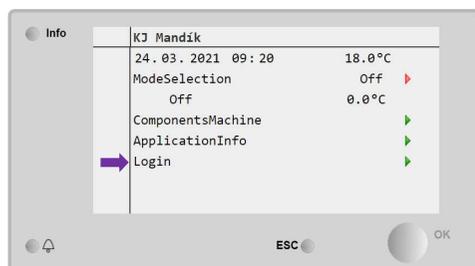
<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>



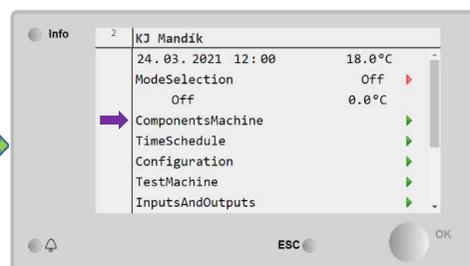
Quick Start/Setup

Required temperature setup

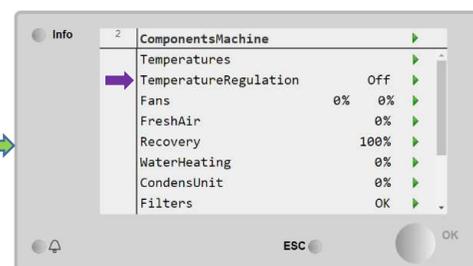
1. Step – Login - 2222



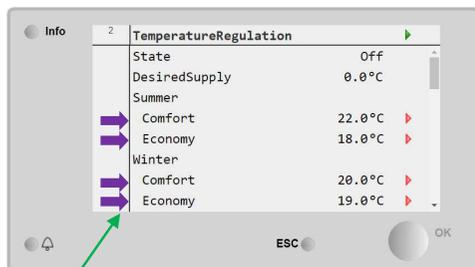
2. Step – ComponentsMachine



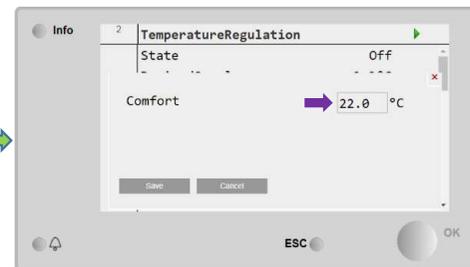
3. Step – TemperatureRegulation



4. Step – Required temperature setup



5. Step – Required temperature setup



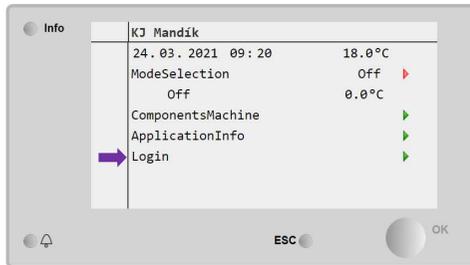
The required temperature for the "Comfort" mode must be equal to or higher than the value for the „Economy" mode

Possibility of setting two temperature setpoints Comfort / Economy in two temperature seasons Summer / Winter

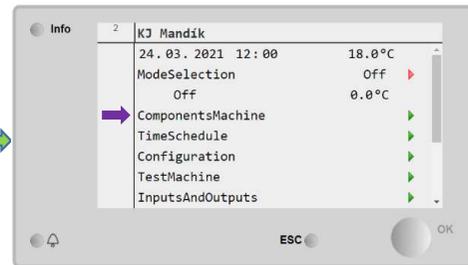
Quick Start/Setup

Mixing damper setup

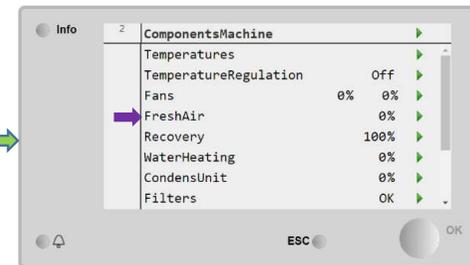
1. Step – Login - 2222



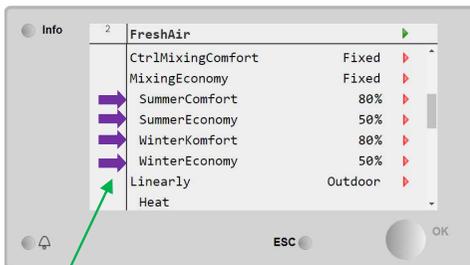
2. Step – ComponentsMachine



3. Step – FreshAir



4. Step – Mixing ratio setup



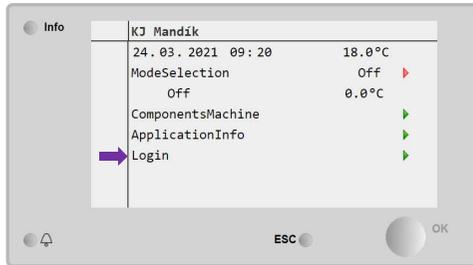
5. Step –Mixing ratio setup



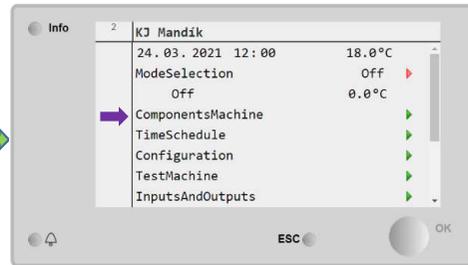
The value in % corresponds to the percentage of opening of the fresh air damper.

Possibility of setting different values for summer and winter operation.

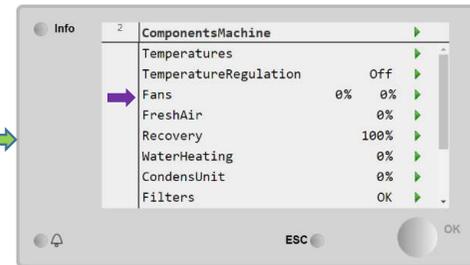
1. Step – Login - 2222



2. Step – ComponentsMachine

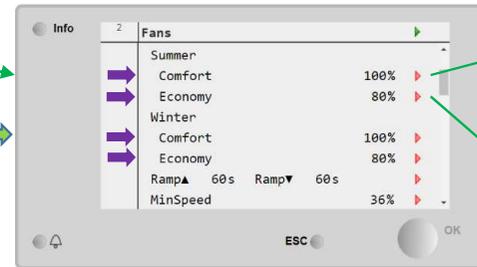


3. Step – Fans



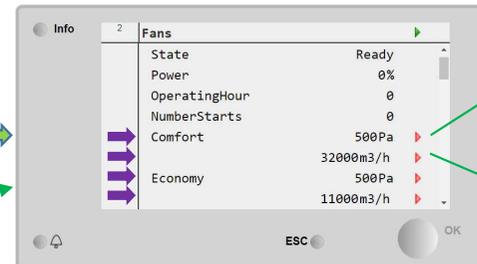
4. Step – Fan power setup

Fixed fan speed control



Due to the chosen method of air volume control, we distinguish two menus. The first one is for setting for fixed fan speed and the second one is for setting of the constant pressure control or for setting of constant flow control.

Constant pressure / flow control



Description:

For fixed speed control, the fan power value is set directly in percent.
For constant pipe pressure control, the required pressure is set in **Pa**. For constant flow control, the required flow is set in **m3/h**.

!! For the proper function of constant pressure/flow control, only the pressure value or only the flow value must be filled in, the second value must be set to 0!!

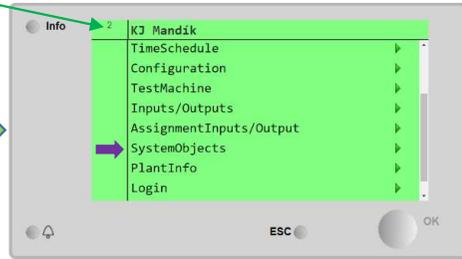
Quick Start/Setup

Setup of BACnet communication – external module POL908

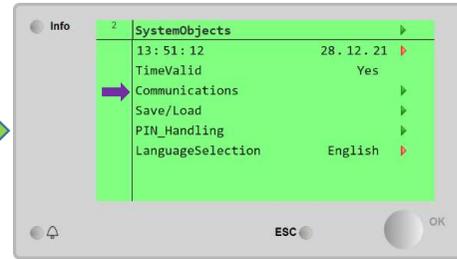
1. Step – Sign up – Password:22



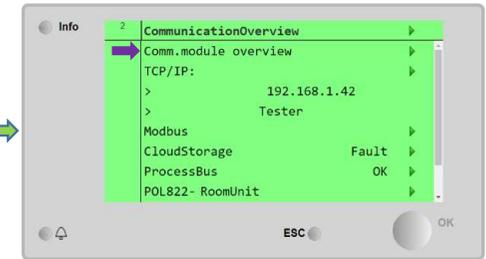
2. Step – System objects



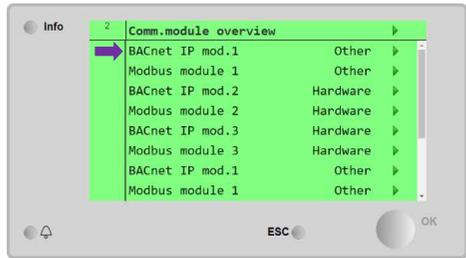
3. Step – Communication



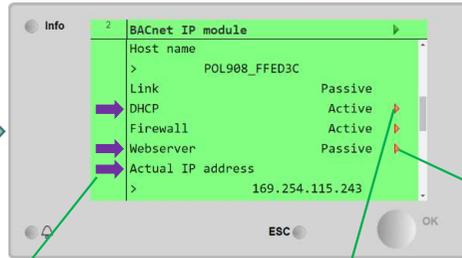
4. Step – Communication module



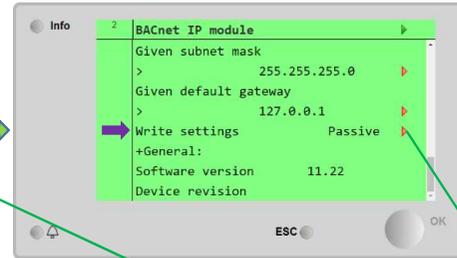
5. Step – Selection of BACnet module



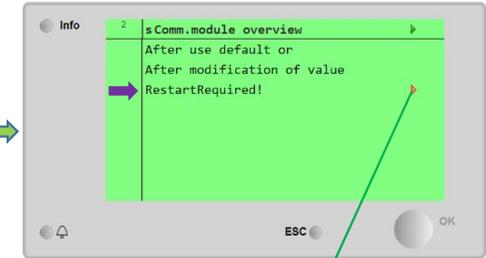
6. Step – Setting of DHCP and IP address



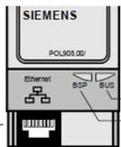
7. Step – Save setting



8. Step – Leave setting - Restart

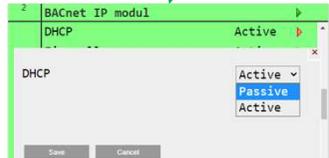
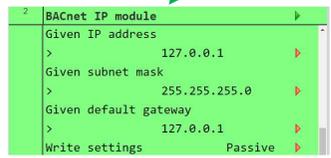


BACnet/IP modul POL908.00



- 1 – Ethernet interface 10/100 Mbit (IEEE 802.3U), RJ45 plug, 8pin, fixed IP address
- 2 – Status LED „BSP“, green OK
- 3 – Status LED „BUS“, green OK
- Detailed description is in data list with module

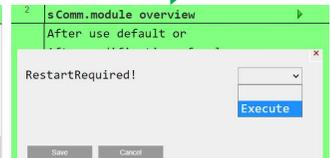
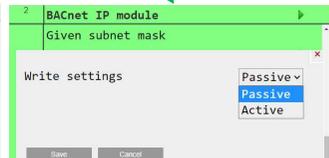
Setting a fixed IP address



- Passive – assigned a fixed IP address allowed by the server
- Active – IP address assigned server of local network



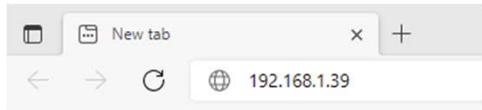
- Passive – not allowed access via WEB
- Active – allowed access via WEB – see next page



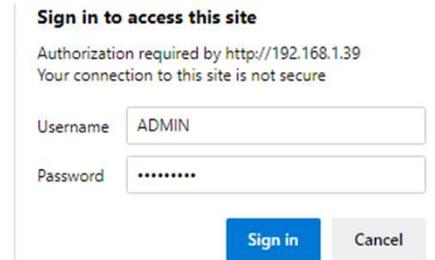
Quick Start/Setup

Web access to BACnet/IP module

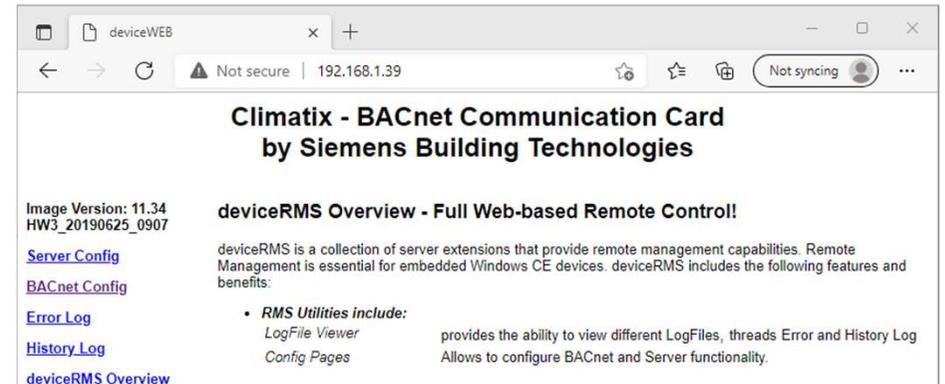
1. Step – Enter actual address BACnet/IP modulu



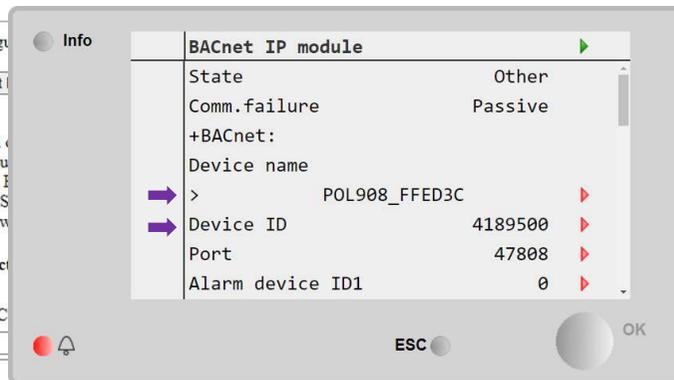
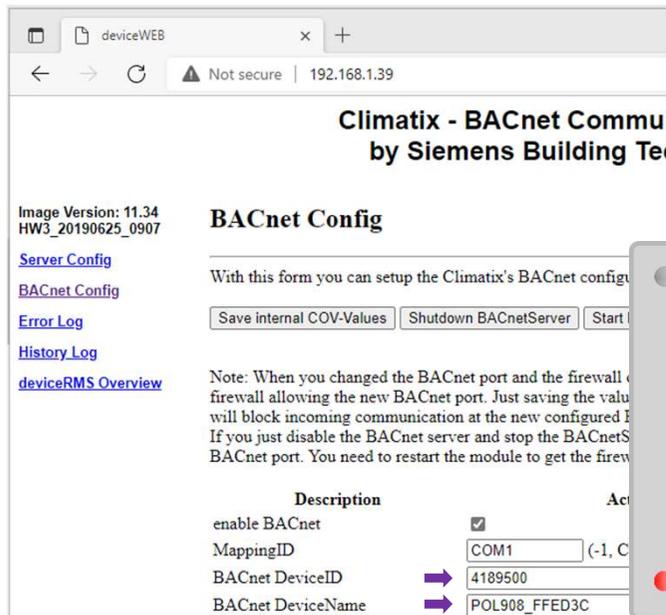
2. Step – Sign up – User name: ADMIN Password: SBTAdmin!



3. Step – Device RMS - the collection of server extensions provides remote administration capabilities



4. Step – DeviceID and DeviceName



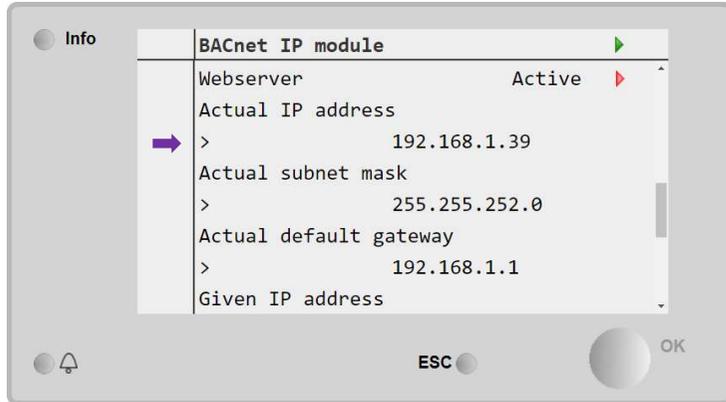
Remote control BACnet/IP module is designed for system integrators BACnet!

All needed information you can find in Siemens documentation „Integration guide“.

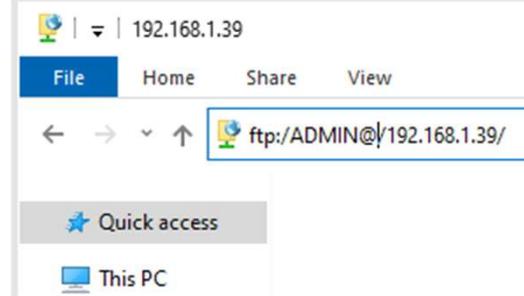
Quick Start/Setup

Loading EDE file from BACnet/IP module

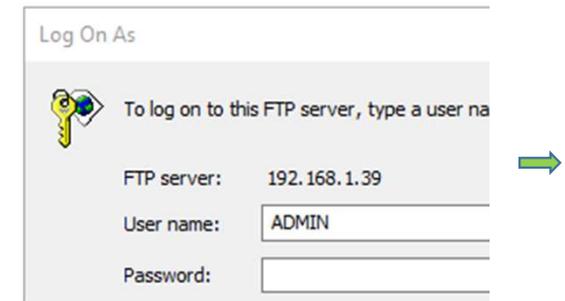
1. Step - Determining the IP address of the BACnet / IP module



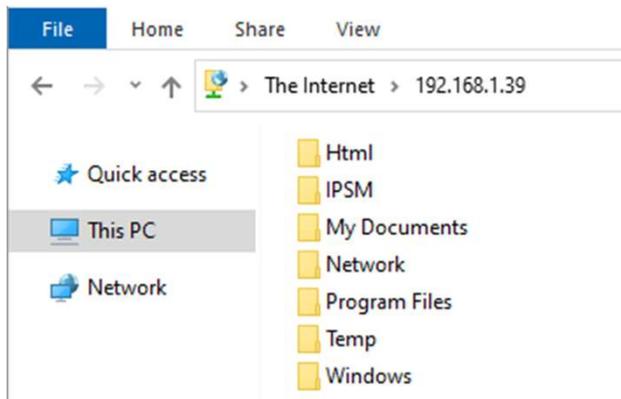
2. Step – Connection to the FTP server of the BACnet / IP module



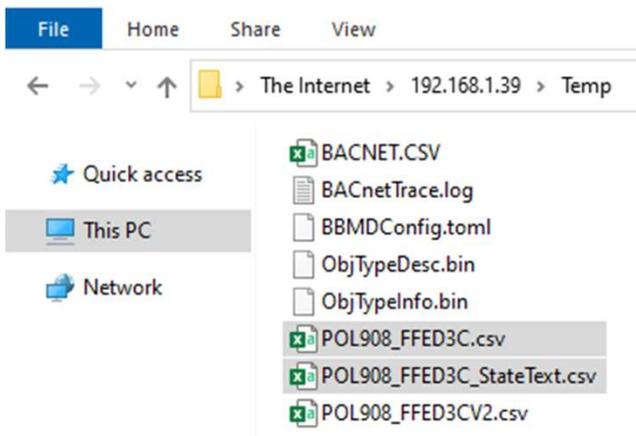
3. Step - Login - Password: SBTAdmin!



4. Step - Select the "Temp" directory



5. Step - Copy EDE files



Do not edit or delete files or directories in this FTP server !!!

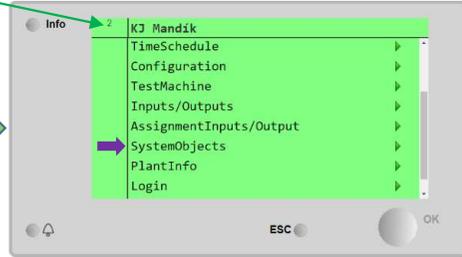
Quick Start/Setup

Setting of Modbus TCP/IP communication - Integrated

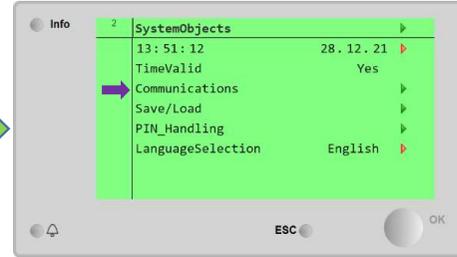
1. Step – Sign up – Password:2222



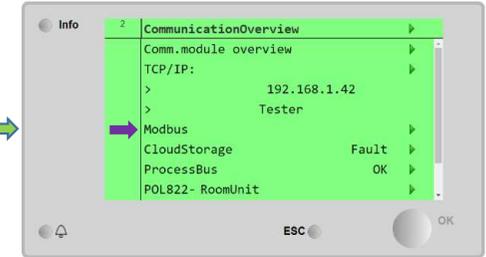
2. Step – System objects



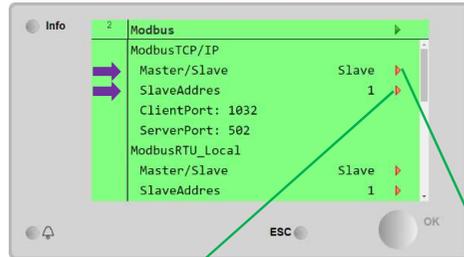
3. Step – Communication



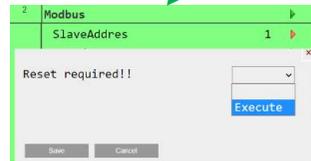
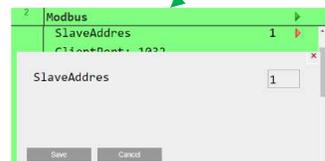
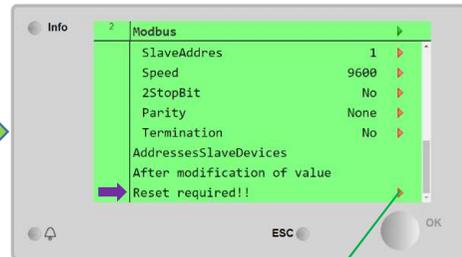
4. Step – Select Modbus



5. Step – Device choosing

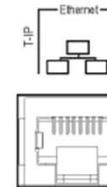


6. Step – Save the setting - Restart



- The address only makes sense if regulator is a „slave“ device
- Device address is same for protocol RTU and TCP/IP
- Device could be different for TCP/IP and RTU protocols

Service interface TCP-IP



- Interface Ethernet 10/100 Mbit (IEEE 802.3U), plug RJ45, 8pin
- Detailed description is in data list of regulator

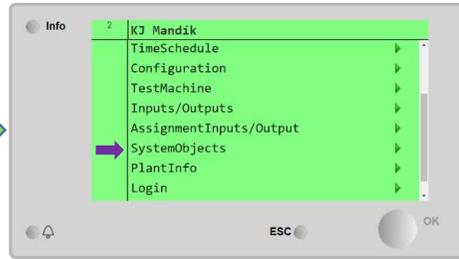
Quick Start/Setup

Setting of Modbus RTU communication - Integrated

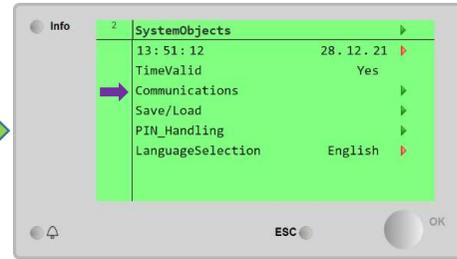
1. Step – Sign up – Password:2222



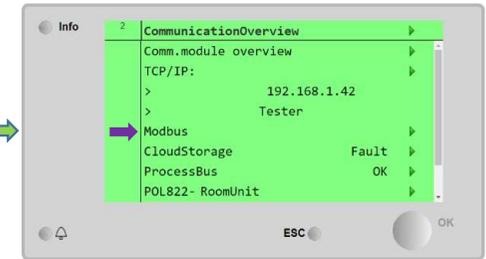
2. Step – System objects



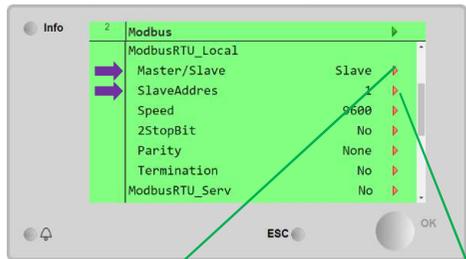
3. Step – Communication



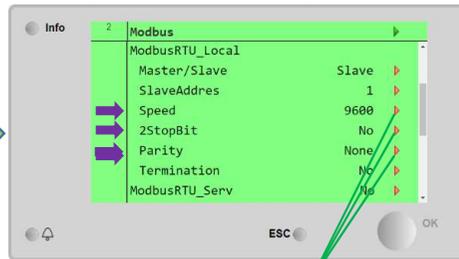
4. Step – Choose Modbus



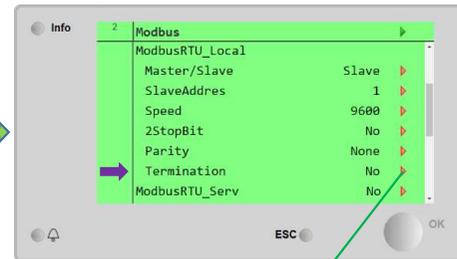
5. Step – Device choosing



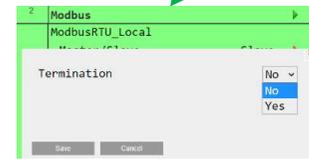
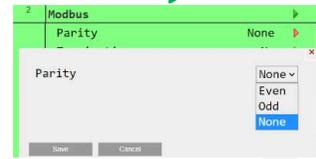
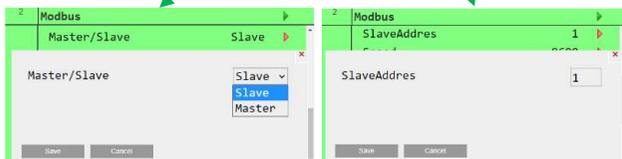
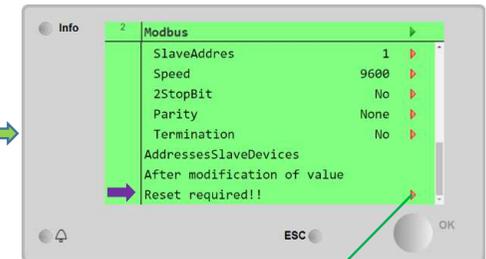
6. Step – Communication parameters



7. Step – Bus in the controller

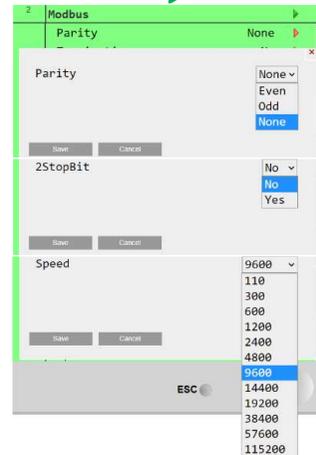


8. Step – Save the setting - Restart



- Device could be different for TCP/IP and RTU protocols

- The address only makes sense if regulator is a „slave“ device
 - Device address is same for protocol RTU and TCP/IP



Service interface RS-485



- 2-core twisted pair, shielded
- It is not galvanically isolated
- Bus termination (switched by software) 680 Ω / 120 Ω +1 nF / 680 Ω
- Detailed description is in data list of regulator

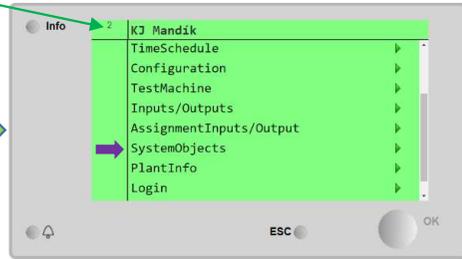
Quick Start/Setup

Setup of Modbus RTU communication – external module POL902

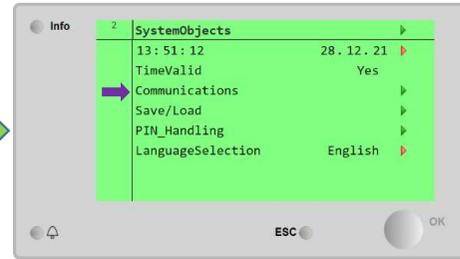
1. Step – Sign up – Password:22



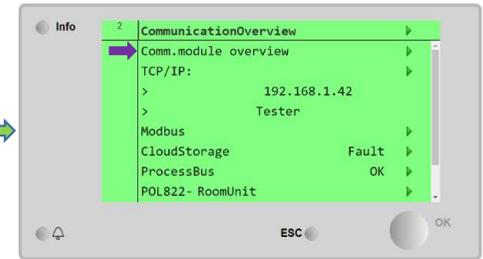
2. Step – System objects



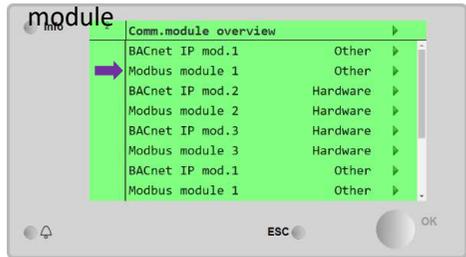
3. Step – Communication



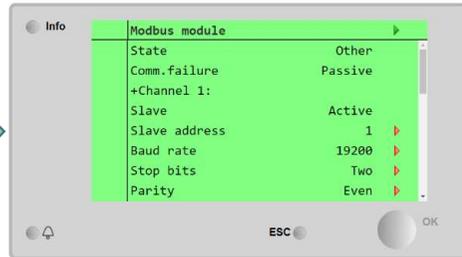
4. Step – Communication module



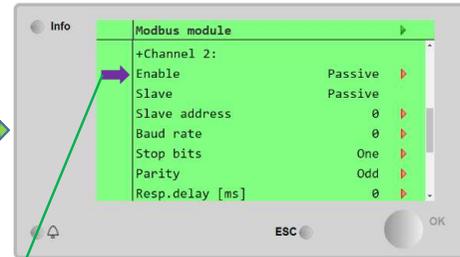
5. Step – Selection of Modbus module



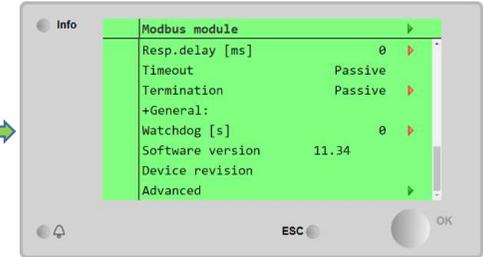
6. Step – Setting the 1st channel



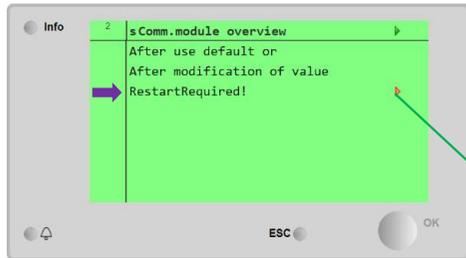
7. Step – Setting the 2nd channel



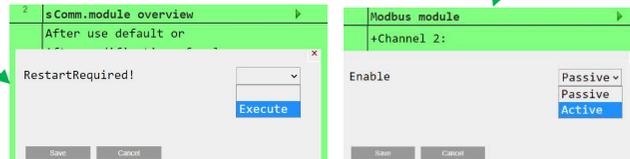
8. Step – Other settings



9. Step – Leave setting - Restart



- The module only works as a slave
- The setting of communication parameters is similar to the built-in Modbus



Channel 2 must be enabled



Modbus RTU modul POL902.00

1st channel

2nd channel

- The module features 2 Modbus slave communication ports
- Galvanically isolated connection to the Modbus network
- Status LED „BSP“, green OK
- Status LED „BUS“, green OK
- Detailed description is in data list with module