Initial BACnet setup of MIXIT with Grundfos GO Remote:

- Connect to MIXIT with your Grundfos GO remote.
- If this is the first time the MIXIT is connected with Grundfos GO Remote please run the initial setup through.
- When the Dashboard is shown on the screen, press Upgrades and control the green check mark in the CONNECT upgrade.
- Upgrade MIXIT with CONNECT licenses if not present.
- Hereafter you need to setup the BACnet connection.

    o Settings -> Other settings -> Connectivity settings -> Fieldbus connection settings
- Select BACnet
    o BACnet MS/TP for RS485
        ▪ Follow setup guide.
        ▪ Ensure to note what selections are made or even better make a Grundfos GO report with all information after setup.
            • Example
                o 9600 Baud
                o Range
                o Device object instance number

    o BACnet IP for Ethernet
        ▪ Follow setup guide
        ▪ Select IP or Enable DHCP
            • If DHCP is selected, wait for 1 minute before checking the IP address given to MIXIT.
        ▪ Ensure to note what selections are made or even better make a Grundfos GO report with all information after setup.
            • Example
                o IP address 192.168.1.100
                o Server port 502
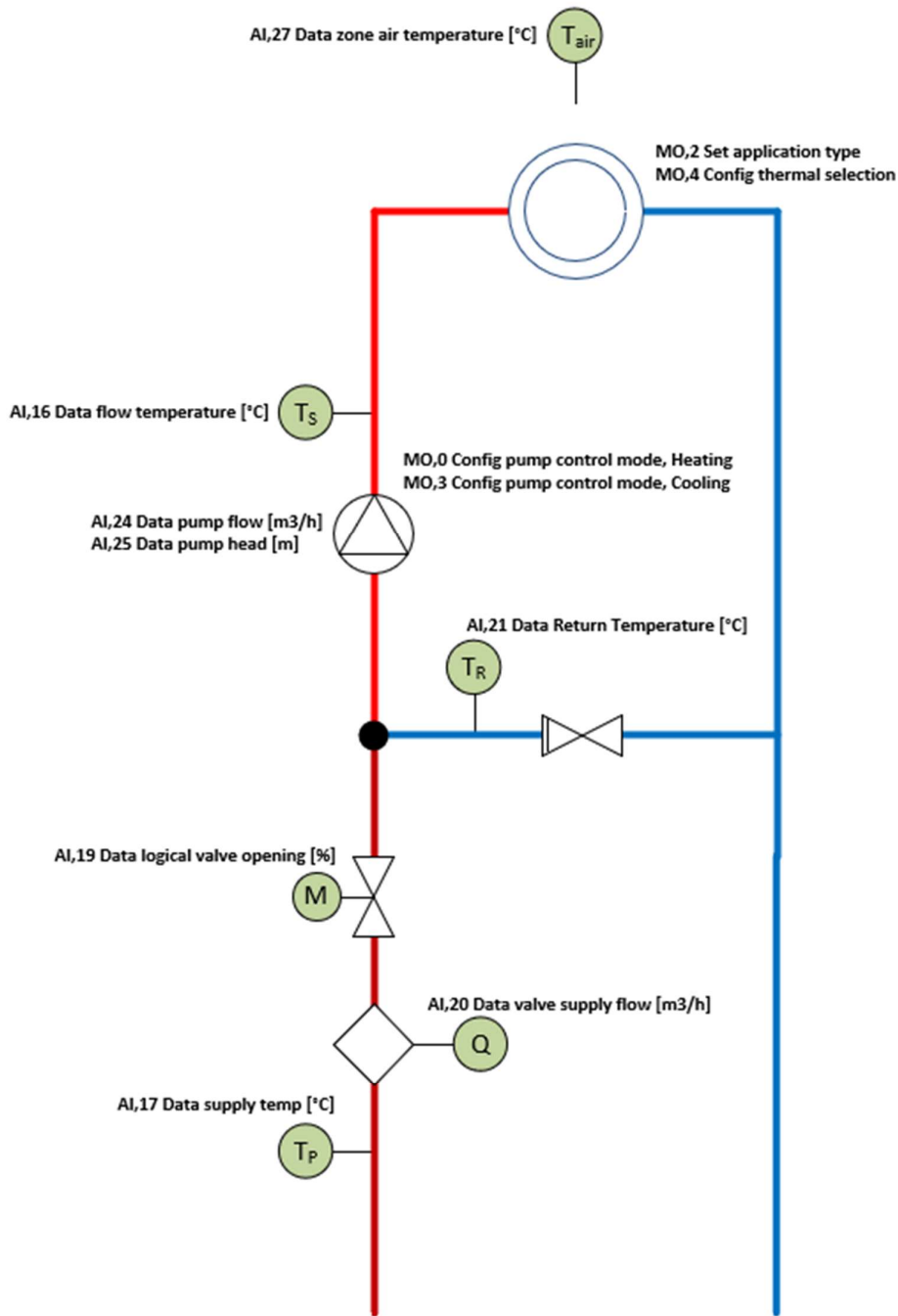   o Device address 1

Initial BACnet setup [Write]

Register number	Type	Name	BACnet unit	Value	Description
BO,0	Binary	Set Control Source		000000000001	0: Local control (power-on default) 1: Bus control
MV,0	Enum	Config Temp Setpoint Source		3	1: default_setpoint 2: ana_temp_setpoint 3: temp_setpoint_remote 4: outdoor_temp 5: outdoor_temp_remote
AO,0	Decimal	Set Temperature Setpoint Remote	°C*	45 = 45°C	Temperature setpoint set via fieldbus
BO,1	Binary	Set Start Stop		000000000011	0: Stop system (OFF) (default) 1: Start system (ON)

*Remember all temperature in BACnet is written in 1°C

Iterative read from MIXIT BACnet register to maintain connectivity:

- Read from, for example, status register BI,0 (Status Control Source) **every 30 sec** to maintain communication between Building Management System and MIXIT. If communication is lost, MIXIT will reverse back to local setpoint.

- Ensure to set the local setpoint AV,6 [°C] to a safe value, so heat/cooling not is lost if communication error.

- Ensure **NOT** to write in persistence area when making the iterative read of MIXIT to keep MIXIT in bus control, which means **read** from the unit and **don't write** every 30 sec.

Valuable BACnet ID's together with MIXIT

AI,27 Data zone air temperature [°C] T_{air}

MO,2 Set application type
MO,4 Config thermal selection

AI,16 Data flow temperature [°C] T_S

MO,0 Config pump control mode, Heating
MO,3 Config pump control mode, Cooling

AI,24 Data pump flow [m3/h]
AI,25 Data pump head [m]

AI,21 Data Return Temperature [°C]

T_R

AI,19 Data logical valve opening [%]

M

AI,20 Data valve supply flow [m3/h]

Q

AI,17 Data supply temp [°C]

T_P

T_P = Supply temperature measured at the valve.
Q = Flow rate at primary side measured at the A-port.
M = Valve opening request.
T_R = Return temperature measured at the valve.
T_S = Flow temperature measured in the secondary side via the connected pump.
T_{air} = Air temperature measured at analog input (CIO2) used in coil application.