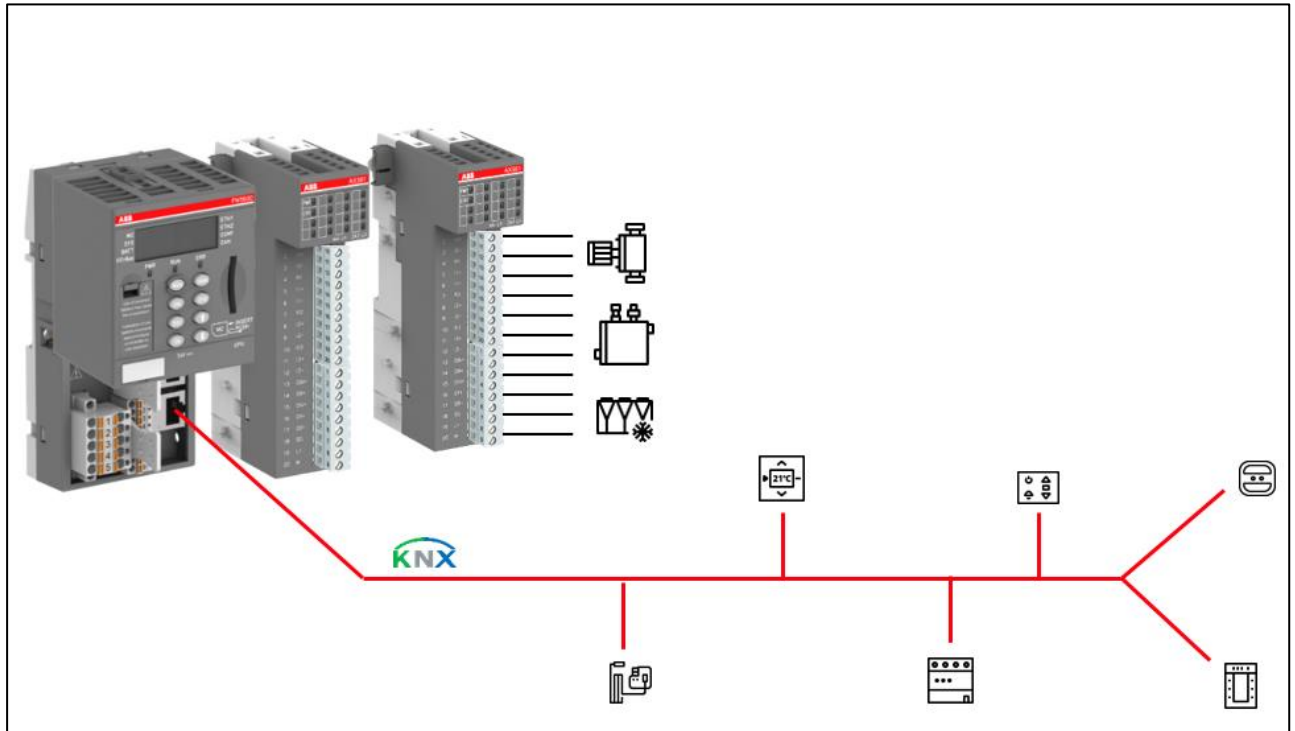


# ClimaECO – Building Automation Controller BAC/S



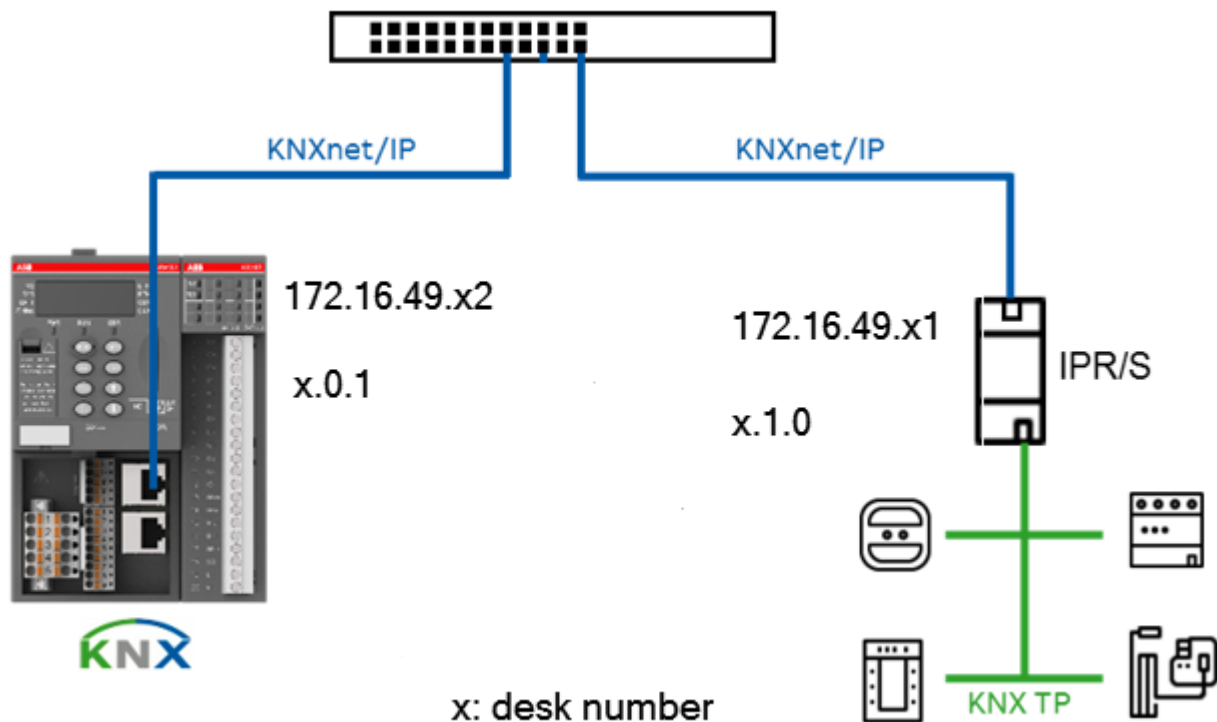
Please note:

The following exercises are just to get familiar with the software BAC Engineering Software together with the Building Automation Controller BAC/S and the integration into KNX.

Intentionally the exercises are relatively simple and it does not reflect a typical request for a solution from a real project to be solved by means of the Building Automation Controller BAC/S.

But feel free to create further functions!

Your installation on your desk is like this:

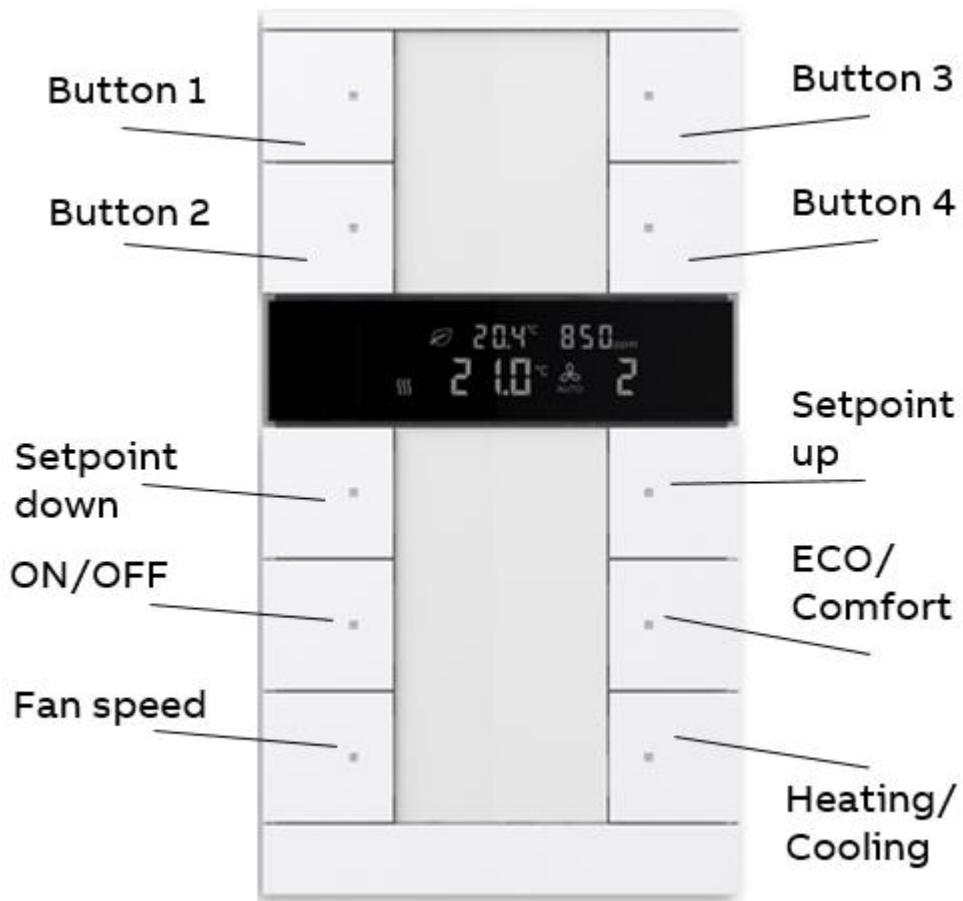


Building Automation Controller BAC/S is connected via Ethernet and IP-Router IPR/S to the KNX installation. As all desks are connected via Ethernet with each other, use the following IP addresses depending on your table, already preprogrammed:

|   |   |
|---|---|
| Desk 1: IP-Router: 172.16.49.11 (phys. Address 1.1.0) | BAC/S: 172.16.49.12 (phys. Address 1.0.1) |
| Desk 2: IP-Router: 172.16.49.21 (phys. Address 2.1.0) | BAC/S: 172.16.49.22 (phys. Address 2.0.1) |
| Desk 3: IP-Router: 172.16.49.31 (phys. Address 3.1.0) | BAC/S: 172.16.49.32 (phys. Address 3.0.1) |
| Desk 4: IP-Router: 172.16.49.41 (phys. Address 4.1.0) | BAC/S: 172.16.49.42 (phys. Address 4.0.1) |
| Desk 5: IP-Router: 172.16.49.51 (phys. Address 5.1.0) | BAC/S: 172.16.49.52 (phys. Address 5.0.1) |
| Desk 6: IP-Router: 172.16.49.61 (phys. Address 6.1.0) | BAC/S: 172.16.49.62 (phys. Address 6.0.1) |
| Desk 7: IP-Router: 172.16.49.71 (phys. Address 7.1.0) | BAC/S: 172.16.49.72 (phys. Address 7.0.1) |

Please note: You can download again the physical address to the BAC/S, but don't change it to another address

Fan Coil Controller FC/S and ClimaECO sensor are already preprogrammed and running with the 6 functions of the rockers below the display of the ClimaECO sensor:



Important: If you use further group addresses you have take addresses in the range depending on training desk:

- Desk 1: 8/1/x
- Desk 2: 8/2/x
- Desk 3: 8/3/x
- Desk 4: 8/4/x
- Desk 5: 8/5/x
- Desk 6: 8/6/x
- Desk 7: 8/7/x

Exercise 1: Use an input from IO-Module to activate/deactivate (ON/OFF) the room temperature control of the ClimaECO sensor with Fan Coil Controller

Exercise 2: Create a logic in BAC/S that either

- Button 1 **AND** 2 are on (logical 1)  
**OR**  
Button 3 **OR** 4 are on (logical 1)

of ClimaECO sensor switches on/off the room temperature control

Exercise 3: The functions of Exercise 1 and 2 shall be displayed and also operated via the integrated Visualisation of the software

Use the existing page VisuPhysAdr and add the necessary elements

**Approach:**

In Automation Builder ...

1. Create your logic function in Automation Builder
2. Define your data points which have to be connected to KNX  
(Inputs ← from KNX, Outputs → to KNX)
3. Create KNX data points and map it with the data point from your logical program
4. Export xml-File

### In ETS ...

1. Import xml-File via DCA
2. Assign group addresses to the group objects
3. Programm physical adress (Via IP or USB)
4. Programm application (Via IP only)