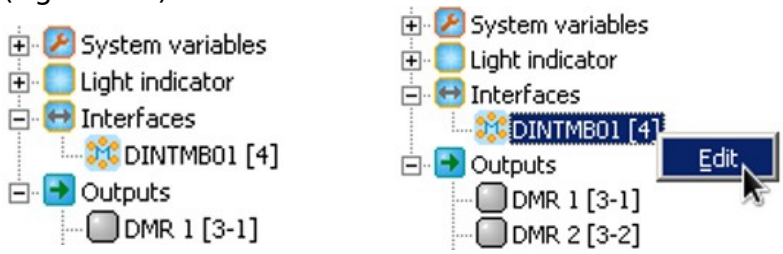
Introduction:

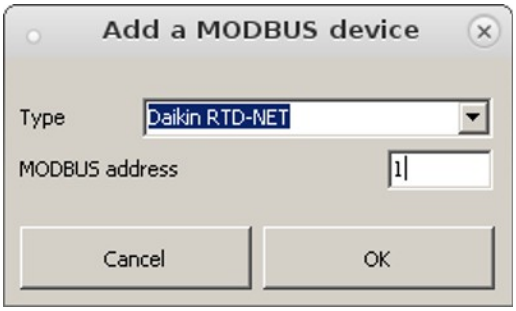
ModBus is an RS485 industrial standard communication protocol used to control multi-purpose devices by reading & writing their slave registers.
A Modbus line consists of a 3 wires data bus: Common, Data+ & Data-.
Maximum 64 ModBus slave devices can be connected to a ModBus master.
Each ModBus device has an individual address defined with dip-switches.
Domintell DINTMB01 module is a ModBus Master interface that manages only the devices listed below.

Operation:

- The configuration software detects a DINTMB01 module (network scan).
- The module appears then in section "Interfaces"on the right.
- Edit parameters (right click).



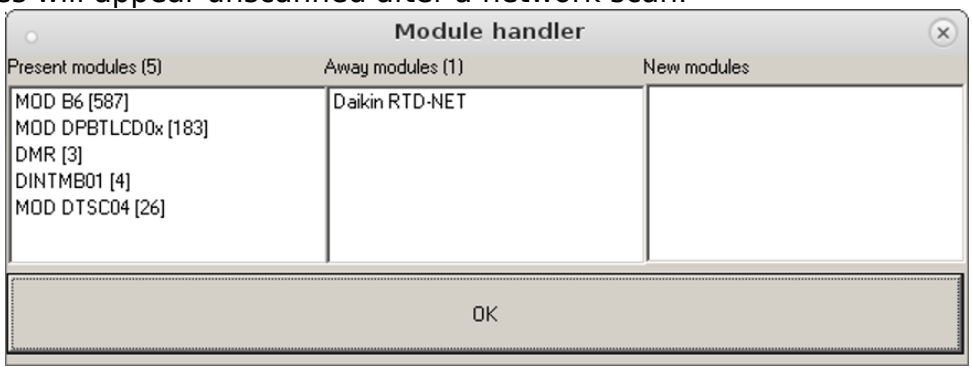
- Add manually devices with their ModBus addresses.



- ModBus Slave Devices appears like classic Domintell inputs/outputs.
- It is already possible to edit/rename these inputs/outputs.

- Links, groups, sfeers, clocks, followers, conditions, timers, OnChange, etc are available as usual with DINTMB01, depending the function of the slave device.
- Do not forget to save and transfer to the DGQG01 to terminate the configuration.

- While DINTMB01 module has not been initialized with the correct configuration, the slave devices will appear unscanned after a network scan.



Handled modules:

- DAIKIN RTD-NET (handled from v1.26.00)

Other modules can be proposed for integration with full technical datasheet & customer order. (Through hierarchic way)

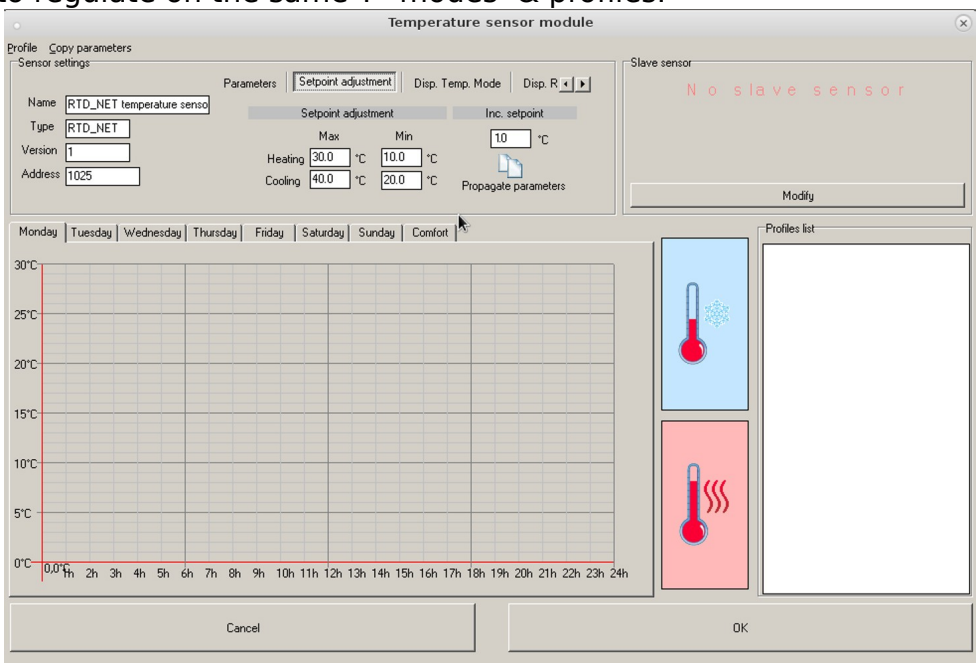
Warnings:

- DINTMB01 is available in version 1.26.00 and later
- Only one ModBus master can be connected to a ModBus bus at the same time.
- Multiple ModBus busses can be integrated to Domintell: one bus per DINTMB01.
- A ModBus address must be unique!

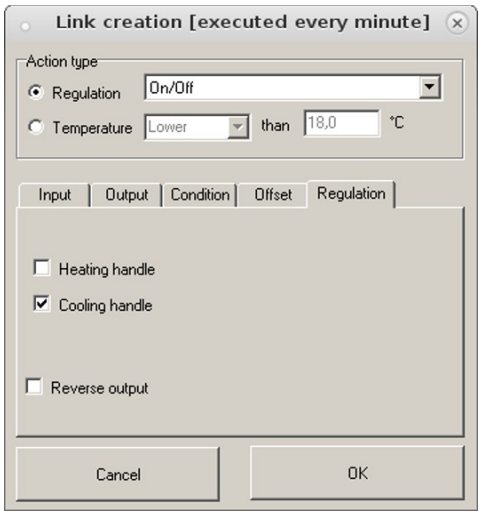
DAIKIN RTD-NET: (handled from v1.26.00)

The RTD-NET is a Modbus interface for monitoring and control of Daikin VRV and Skyair ranges of air-conditioners and VAM and VKM ventilation units, connected on Daikin P1/P2 Bus.

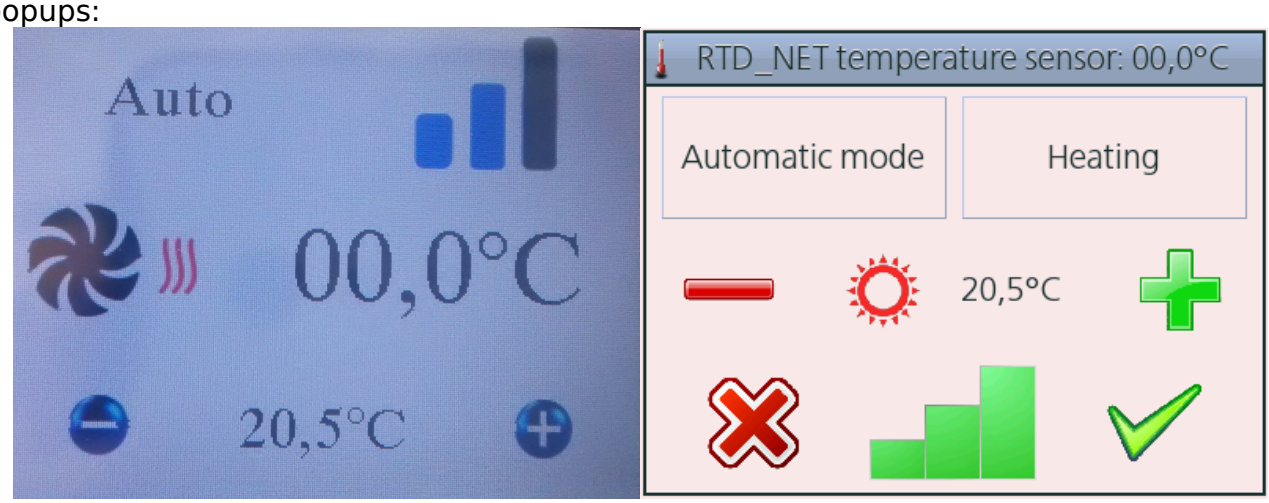
This interface is integrated like a classic Domintell T° sensor that executes automatically it's regulation following usual Domintell T° management.
On such a configuration, up to 16 HVAC Units can be connected to regulate on the same T° modes & profiles.



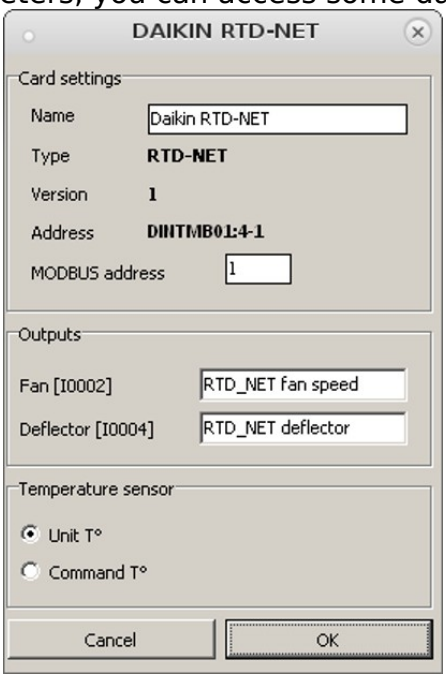
It is also possible to add additional Domintell links.



Daikin Units Fan speed is handled with the T° sensor into DPBnLCD0x and DTSC0x popups:



When editing modules parameters, you can access some data:



- Modify the ModBus Address
- Modify Units Fan & Deflector Labels (Reserved for future use)
- Select the T° sensor that will be used to display & manage the system:
The HVAC Unit T° sensor (#1 if many units) or the Remote Controller T° sensor.

"ModBus Address" and the "Temperature sensor" parametersThis parameter should be the same than inserted in the Daikin system.
You should check this point with the HVAC Technician.

Limitation:

- Daikin error codes are not decoded/interpreted.

We are at your service for all information request.