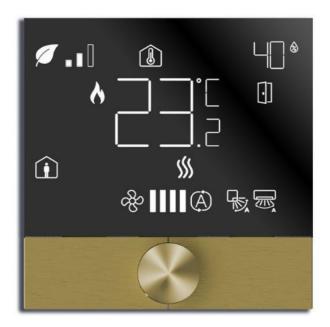
User Manual

Eclipse Thermostat



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1. Presentation

Many multi-functional thermostats offer a complicated user experience that can be frustrating for users to navigate. However, the Eclipse thermostat is designed with simplicity in mind while still offering powerful control over heating and cooling systems.



Verdant

SCREEN

LARGE

CONTROL WITH KNOB

AIR QUALITY MEASUREMENT ECLIPSE DESIGN LINE

Material and Colour Options

Brushed Finish

Pure form of stainless steel, brass and aluminium are brushed with perfect craftsmanship to provide satin effect in each touch to the device.







Silky-Matte Finish

Aluminium is painted with unique colours and coated with special techniques to provide silky feeling in each touch to the product.



Titanium Grey



Obsidien Black





Coccoa Grey



Ordering Tips:

Use online planner to create an Eclipse Thermostat. https://planner.core.com.tr/

1.1. Main Features

SUPER KNOB

All functions including temperature change is controlled via single Knob. Just rotate Knob to change room temperature or press and rotate to select which function to change.

CONFIGURABLE FUNCTIONS

Eclipse Thermostat has several functions like temperature change, operation mode, operating mode, fan control and also AC vane control. Functions are configured via ETS and only functions that configured are displayed in the screen.

CUSTOMIZABLE BUTTONS

There are two backlight icon buttons which can be configured to control any function in the room such as switching or dimming; or can be configured to control thermostat functions.

BUILT-IN VRV CONTROLLER

Eclipse Thermostat controls VRV Systems indoor units via its built-in modules (Optional). This provides flexibility in the infrastructure and also saving cost Complete Air Conditioner Thermostat. Eclipse Thermostat provides display and control of Up/Down Vane, Right/Left Vane and additional operation modes of VRV Systems such as Dry, Fan and Auto.

LARGE DISPLAY

Eclipse Thermostat provides a spacious display that makes it easy for users to read and interpret the temperature and settings.

AIR QUALITY MEASUREMENT

Eclipse Thermostat measures CO2 inside the room with its built-in sensor. Air-quality of the room can be checked on main page or air-quality page in detail. Logic functions can be triggered according to the air- quality level via KNX.

ADAPTIVE BACKLIGHTS

Light sensor measures the ambient light in the room, allowing for automatic adjustment of the backlight brightness. With this advanced feature, the device can be customized to provide the perfect level of brightness for any environment.

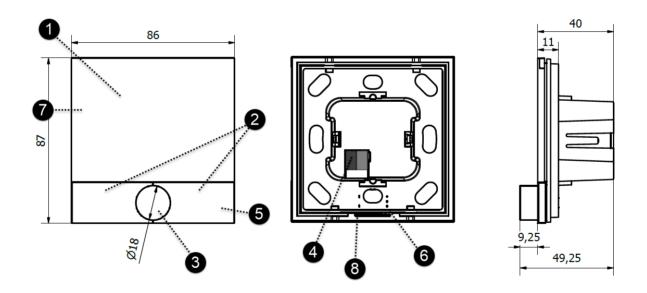
PROXIMITY SENSOR

The Eclipse Room Controller is equipped with a sophisticated proximity sensor that detects when a user is approaching the device. In dark environments, the light of the display is automatically dimmed to provide a welcoming and comfortable user experience.

1.2. Dimensions



Dimensional drawing (all dimensions are in mm)

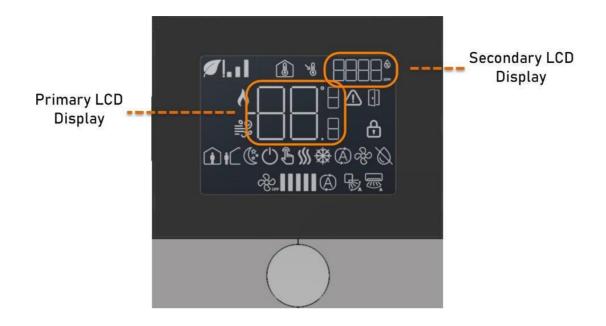


- 1. Display
- 2. Folds (Sold separately)
- 3. Super Knob (Sold separately)
- 4. KNX Connector

- 5. KNX Programming Button (under the key)
- 6. CO2 Sensor
- 7. Proximity Sensor
- 8. Temperature and Humidity Sensor



1.3. Display Overview

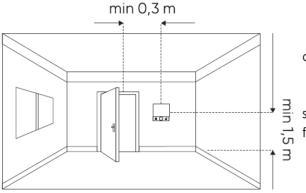


2. Technical Specification

Sensors:	Temperature – Accuracy Rate +/- 0.2°C Humidity – Accuracy Rate +/- 2% CO2 Proximity & Light
Dimensions:	86mm X 86mm X 11mm
Fold Thickness:	4mm
Display:	3.5" VA Display
Casing Material:	Aluminium, Brass and Stainless Steel depending on the finish selection
Knob Material:	Brass, Stainless Steel depending on the finish selection
Power:	29 VDC
Consumption:	< 15 mA from KNX Bus-line
Connectivity:	KNX-TP
Programming Tool:	ETS
Optional Modules:	VRV Modules Mitsubishi Electric, Daikin, Samsung Nasa, LG, Gree, Mitsubishi Heavy
Installation:	German IEC/EN 60670 In wall Box

2.1. Installation

2.1.1 Installation Site

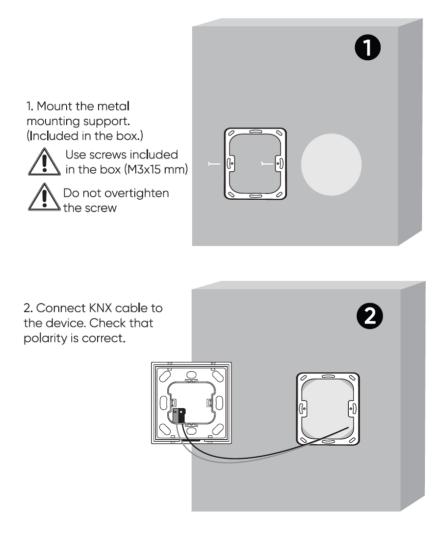


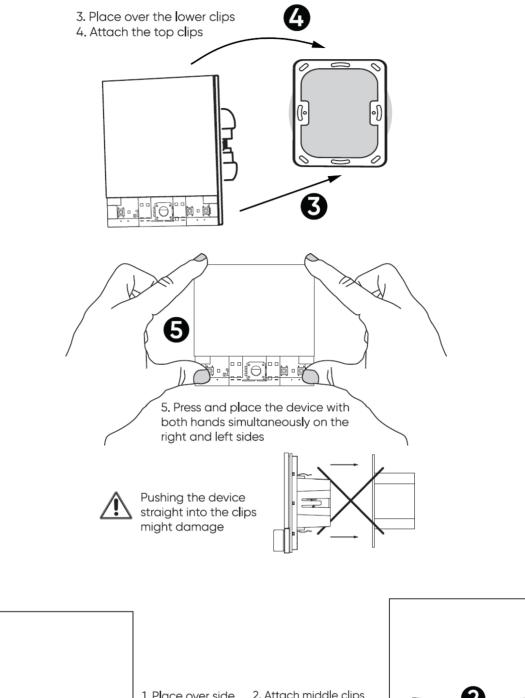
> The device should be positioned approximately 150 cm above the ground and 30 cm away from the door.

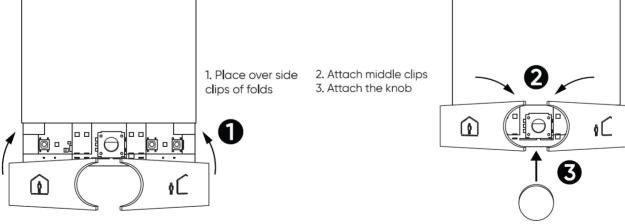
> The device should not be installed close to the heat source. The wall opposite the heat source will be appropriate for the installation.

> Contact with fluids to the device is to be avoided.

2.1.2. Mounting, Electrical Connection







For installation video: https://youtu.be/31ijnYzS6LY

3. ETS Parameters

core

Eclipse Thermostat must be configured and set up using the standard KNX configuration tool ETS. The ETS database for this device can be downloaded from ETS online catalogue.

For tutorial videos: https://www.youtube.com/playlist?list=PLtwbriT0bxi_AiuOhgyqbsvCJeNRLjLoD

3.1General

General	Display Temperature Unit	Celcius Fahrenheit	
Temperature Sensor	Send Alive Beacon	O Disable O Enable	
RTC	Proximity Sensor	O Disable O Enable	
Rocker Configuration	Humidity Sensor	O Disable 🔵 Enable	
	CO2 Sensor	O Disable 🔵 Enable	
Rocker	Scenes	O Disable O Enable	
	Disabling Function	All Enabled	•
	Primary LCD Display	O Setpoint O Ambient Temperature	
	Secondary LCD Display	Setpoint	•
	Display and Leds Brightness		
	Brightness Sensor	O Disable Enable	
	Brightness Level (%)	100	÷

Display Temperature Unit: [Celsius, Fahrenheit]

Temperature unit can be selected for the device. Once selected, the device will use your preferred temperature unit for all temperature values displayed on Eclipse Thermostat.

Send Alive Beacon: [5...**300**...65535 s]

Send Alive Beacon	🔵 Disable 🔘 Enable	
Send Alive Beacon Value	0 0 1	
Send Alive Beacon Interval (s)	300 🗘	
Delay After Bus Recovery (s)	10 ‡	

Parameter used to observe that the device and the application are running. It is disabled by default. When activated, Object Number 1 "Send Alive Beacon" will send selected value with defined time interval cyclically.



Delay After Bus Voltage Recovery: [1...10...255 s]

The parameter defines the behaviour of the switch after bus power return. The delay time determines the period between bus voltage recovery and the point after which telegrams can be sent.

Disabling Function:

RTC and Rocker can be disabled by checking "Disabling Function" parameter. Following parameters available.

All Enabled Disable only RTC Disable only Rocker Disable both RTC and Rocker : Super knob and rocker both are enabled. : Super knob is disabled. Rocker is enabled.

- . Super knob is disubled. Rocker is enabled.
- : Superknob is enabled. Rocker is disabled.

Disabling Function	All Enabled	•
	All Enabled	~
	Disable only RTC	
	Disable only Rocker	
	Disable both RTC and Rocker	

Primary LCD Display: [Setpoint, Ambient Temperature]

Primary LCD display can be set to show "Setpoint temperature" value instead of "Ambient temperature". Figure 1

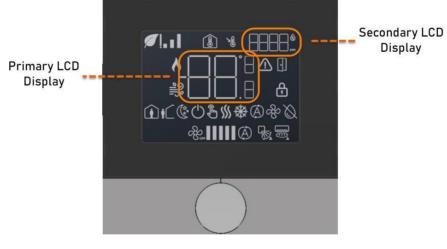


Figure 1 - LCD Display

Secondary LCD Display: [Setpoint, Ambient Temperature, Humidity, CO2]

Primary LCD display can be set to show following values.



Primary LCD Display	Setpoint O Ambient Temperature	
Secondary LCD Display	Setpoint	•
	Setpoint	
	Ambient Temperature Humidity CO2	

Check Figure 1 for the position of second LCD display.

3.1.1. Proximity Sensor

Through the proximity sensor it is possible to keep the Eclipse Thermostat in a stand-by state, setting a level of brightness of the LEDs and the display and reactivate them only when the user approaches to the thermostat.

When "Proximity Timeout" is over, [1...**30**...120 s] brightness of LEDs and display will be dimmed to "Standby Dimming Value" until next proximity approach is detected. Stand by dimming value can be selected as follows. [%0, %10, %20, %30, %40 and %50]

Proximity Sensor	🔵 Disable 🔘 Enable	
Proximity Timeout (s)	30	÷
Standby Dimming Value	0%	-
	0%	~
	10%	
	20%	
	30%	
	40%	
	50%	

Brightness calculation when Proximity sensor is activated.

Maximum brightness value= MBV [selected in "General" parameter tab "Display and Leds Brightness" section.]

Standby dimming percentage= SDP [possible values: 0, 10, 20, 30, 40, and 50] Proximity

sensor value= PSV [possible values: 0, 1] 0=not detected, 1=default value

Actual brightness formula:

Actual Brightness = MBV x $\frac{SDP + (100 - SDP) x PSV}{100}$

Example 1: MBV=100, SDP=20

Actual Brightness = $100 x \frac{20 + (100 - 20) x 0}{100} = 20 \%$

Example 2: MBV=60, SDP=20

Actual Brightness = 60 x $\frac{20 + (100 - 20) \times 0}{100} = 12 \%$

3.1.2. Humidity Sensor

Humidity sensor tab contains following parameters.

General	Sensor Compensation (%)	0	¢
Temperature Sensor	Send Humidity	Cyclic O Cyclic and on change	2
Humidity Sensor	Sending Interval (min)	10	‡ (0=inactive
	Transmission On Change (%)	5	÷
RTC	Humidity Value From	Internal Sensor	+
Rocker Configuration		Internal Sensor	~
		80% Internal, 20% External	
Rocker		60% Internal, 40% External	
		50% Internal, 50% External	
		40% Internal, 60% External	
		20% Internal, 80% External	
		External Sensor	

Sensor Compensation (%):

Measured humidity value can be shifted up or down by using sensor compensation value. [-5...**0**...+5]

Example: Assume that "3" is written to the sensor compensation box. Measured humidity percentage will be increased + 3%. If "-3" is written to the sensor compensation box. Measured humidity percentage will be decreased - 3%.

Send Humidity:

Object Number 3 "Humidity Value – Internal Value (%)" can be sent cyclically or by change of measured humidity.

Sending Interval (min) [0...10...255] Transmission

on Change (%) [1...5...100] Humidity Value From:

Humidity value can be received by an external humidity sensor directly or partially according to selected percentage.

3.1.3. Co2 Sensor

CO₂ sensor tab contains following parameters.

General	Sensor Compensation (ppm)	0	
Temperature Sensor	Send CO2	Cyclic O Cyclic and on change	
CO2 Sensor	Sending Interval (min)	10	
	Transmission On Change (ppm)	100 ‡	
⊩ RTC	CO2 Value From	Internal Sensor	
Rocker Configuration	Air Quality Levels		
Rocker	Air Quality is excellent below threshold1; average between threshold1 & threshold2; poor above threshold2		
	Air Quality Thresholds	 Default (Threshold1=500ppm, Threshold2=100 User Defined 	
	Poor Level Switching	O Disable O Enable	

Sensor Compensation (ppm):

Measured CO₂ value can be shifted up or down by using sensor compensation value. [-500...**0**...+500]

<u>Example</u>: Assume that "100" is written to the sensor compensation box. Measured CO_2 ppm will be increased "100 ppm". If "-100" is written, measured CO_2 ppm will be decreased "100 ppm".

Send CO₂:-

Object Number 5 "CO₂ Value - Internal Value (ppm)" can be sent cyclically or by change of measured ppm.

Sending interval time [0...10...255]

Transmission on change [10...100...500] <u>CO2</u>

value from:

 CO_2 value can be received from an external CO_2 sensor directly or partially according to selected percentage.



Poor

Air Quality Thresholds:

Excellent

Air quality is excellent below threshold 1, average between threshold 1 and threshold 2; poor above threshold 2. Threshold values can be defined by user.

Average

□ Threshold 2 □

□ Threshold 1 □

Air Quality Levels			
Air Quality is excellent below threshold1; average between threshold1 & threshold2; poor above threshold2			
Air Quality Thresholds	 Default (Threshold1 User Defined 	=500ppm, Threshold2=100	
CO2 Threshold1 (ppm)	500	* *	
CO2 Threshold2 (ppm)	500	+Threshold	
Poor Level Switching	🔵 Disable 🔘 Enable	2	
Poor Level Switching Value	🔵 Inverted 🔘 Not Ir	nverted	

Poor Level Switching:

Object Number 7 "Poor Level Switching Value" can be activated. Object will send "Air Quality is Poor - Alarm" when air quality level is higher than "Threshold 2". Object value can be inverted. [**True**, False]

3.1.4. Scenes

Eclipse Thermostat has 4 scenes available to change RTC Operating Mode via recalling a scene.

Scene number can be individually selected between 1 and 64 for each scene. Thus, scenes can be recalled by using "Scene number" via Object Number 103 "Scene – Scene Call".

General	Scene 1	Enabled	
Temperature Sensor	Scene Number	1	* *
	RTC Operating Mode	Comfort	•
RTC			
Rocker Configuration	Scene 2	🔵 Disable 🔘 Enable	
Rocker	Scene Number	2	÷
	RTC Operating Mode	Standby	•
Scenes			
	Scene 3	🔵 Disable 🔘 Enable	
	Scene Number	3	¢
	RTC Operating Mode	Night	•
	Scene 4	🔵 Disable 🔘 Enable	
	Scene Number	4	÷

3.1.5. Display and Leds Brightness

Brightness Sensor [Disable]

Brightness level can be defined between %0 - %100 for LEDs when brightness sensor is disabled.

Leds Brightness		
Brightness Sensor	O Disable C Enable	
Brightness Level (%)	100	

Brightness Sensor [Enable]

Eclipse Thermostat adjusts brightness of LEDs and display according to ambient light level which is measured by built-in light sensor.

"Brightness sensor" can be enabled under "General" parameter tab. Minimum and maximum brightness levels can be defined here. LEDs brightness will be adjusted between these two percentage levels.

Min Brightness Value can be defined between %0 - %50. Max

Brightness Value can be defined between %50 - %100.

General	Display Temperature Unit	Celcius Fahrenheit	
Temperature Sensor	Send Alive Beacon	O Disable O Enable	
RTC	Proximity Sensor	Oisable Enable	
Rocker Configuration	Humidity Sensor	Oisable Enable	
Kocker Conliguration	CO2 Sensor	Disable Enable	
Rocker	Scenes	🔘 Disable 🔵 Enable	
	Disabling Function	All Enabled	
	Primary LCD Display	Setpoint 🔘 Ambient Temperature	
	Secondary LCD Display	Setpoint	
	Display and Leds Brightness		
	Brightness Sensor	🔵 Disable 🔘 Enable	
	Min. Brightness Level (%)	0	
	Max. Brightness Level (%)	100	ŝ
	Darkness Recognition	O Disable O Enable	
	Dark will be recognised below	10 lux	
	Darkness Switching Value	Inverted O Not Inverted	

Brightness calculation when Brightness sensor is enabled.

Maximum Brightness Value= Max	possible values: [50-100] Brig	
value for darkness (min value) = Min	possible values: [0-50] default=	
Ambient sensor value= AS	[0-100 lux] 0=10 lux, 100)=X lux

Actual brightness formula:

Actual Brightness =
$$Min + \frac{(Max - Min) x AS}{100}$$

Example 1: Max=80, Min=30, AS=30

Actual Brightness =
$$30 + \frac{(80 - 30) \times 10}{100} = 45 \%$$

Example 2: Max=80, Min=30, AS=70

Actual Brightness =
$$30 + \frac{(80 - 30) \times 70}{100} = 65\%$$

MBV [50-100]	Y [0-50]	AS [0-100]	Actual Brightness
80	30	0	30%
80	30	10	35%
80	30	20	40%
80	30	30	45%
80	30	40	50%
80	30	50	55%
80	30	60	60%
80	30	70	65%
80	30	80	70%
80	30	90	75%
80	30	100	80%

Table 1 – Change of Actual Brightness according to ambient light level

Note: If "Brightness Sensor" is enabled at the same time with "Proximity Sensor", brightness value of LEDs and display will change accordingly based on the formula below.

Actual Brightness = $(Min + \frac{(Max - Min) x AS}{100}) x \frac{SDP + (100 - SDP) x PSV}{100}$

www.core.com.tr

Darkness Recognition

Object Number 2 "Darkness Switching Value" can be activated by enabling "Darkness Recognition" parameter. If measured lux value is less than 10 lux, darkness will be recognised and transmitted via this object to KNX bus. Object value can be inverted. [True, false]

Brightness Sensor	🔵 Disable 🔘 Enable
Min. Brightness Level (%)	0 *
Max. Brightness Level (%)	100 🗘
Darkness Recognition	🔵 Disable 🔘 Enable
Dark will be recognised below 10lux	
Darkness Switching Value	Not Inverted Inverted

3.2. Temperature Sensor

Sensor Compensation (x0.1K):

Measured temperature value can be shifted up or down by using sensor calibration value. [-100...**0**...+100]

<u>Example</u>: Assume that "10" is written to the sensor compensation box. Calculation: $10x \ 0.1 = 1$ Celsius, measured temperature will be increased "+ 1 °C". If "-10" is written measured temperature will be decreased "-1 °C".

Send Temperature:

Object Number 8 "Actual Temperature – Internal Value" can be sent cyclically or by change of measured temperature.

Sending Interval (min) [0...10...255]

Transmission on Change (x0.1K) [1...3...100]

Temperature Value from:

Temperature value can be received from an external temperature sensor directly or partially according to selected percentage. Object Number 9 "External Temperature – External Value".

Send Temperature Sending Interval (min) Transmission On Change (x0.1K)	Cyclic Cyclic and on ch	(0=inactive)
Transmission On Change (x0.1K)		
	3	
T		
Temperature Value From	Internal Sensor	•
	Internal Sensor	1
	80% Internal, 20% External 60% Internal, 40% External	Default Value: Internal Senso
	50% Internal, 50% External	
	40% Internal, 60% External	
		80% Internal, 20% External 60% Internal, 40% External 50% Internal, 50% External



3.3. RTC

3.3.1. Settings

Control Modes: Heating, Cooling, Heating and Cooling, Air Conditioner]

General	Control Modes	Heating	
Temperature Sensor	Window Contact	🔵 Disable 🔘 Enable	
RTC	Window Contact Value	Inverted O Not Inverted	
Settings			
Setpoints			
Heating			

Window Contact: [Disable, Enable]

Object Number 10 "Window Contact (1-Open, 0--Close) can be used to take thermostat control in stand-by position according to the window status. If window is open thermostat will stop working.

3.3.2. Setpoints

General	Min. Setpoint Value	16	÷
Temperature Sensor	Max. Setpoint Value	32	\$
RTC	Setpoint Step Value	0.5 K	•
inc.	Send Setpoint	O Cyclic O Cyclic and on change	
Settings	Sending Interval (min)	10	¢ (0=inactive
Setpoints	Transmission On Change (x0.1K)	3	÷
Heating	Operaitng Modes at Bus Recovery	As before voltage failure	•
Fan	Operating Mode 1 Bit Objects	O Disable O Enable	
Rocker Configuration			
Rocker	Heating Mode Setpoints		
NOCKEI	Comfort	22	‡ °(
	Standby	20	‡ °(
	Night	18	‡ °(
	Protection	7	¢ °(



Min. Setpoint Value: [5...16...40]

Defines the minimum temperature setpoint value for the thermostat function. Any temperature value lower than Min. Setpoint Value cannot be written on setpoint temperature objects or selected on the display.

Max. Setpoint Value: [5...32...40]

Defines the maximum temperature setpoint value for the thermostat function. Any temperature value higher than Max. Setpoint Value cannot be written on setpoint temperature objects or selected on the display.

Setpoint Step Value: [0.1...**0.5**...1]

Step value can be defined with the parameter. Selected step value will be used to Increase/Decrease value of current setpoint by rotating the super knob.

<u>Send Setpoint (°C):</u> [Cyclic...Cyclic on change]

Current setpoint can be sent cyclically or by change of measured temperature via status Setpoint object.

Sending interval (min): [0...10...255] 0=Inactive

Defines the time period of sending setpoint value via "Status Setpoint" object.

Transmission on change (x0.1 K): [1...3...100]

Defines the minimum temperature change to send setpoint value via "Status Setpoint" object.

Operating Mode at Bus Recovery:

The parameter defines the behavior of the thermostat after bus power return. Operating mode can be changed to following options after a power return:

As before voltage failure Comfort Standby Night Protection

Each operating mode has a different temperature setpoint.

Operating Mode 1 Bit Objects:

Parameter determines the data type of operating mode objects. Data type of operating mode objects can be used as "1 bit" with separate objects for each operating mode if this parameter is enabled. Status Objects will send current status of operating mode after change.

	22	Comfort Mode	1-Active	1 bit	state
E A	23	Comfort Mode Status	0-Inactive,1-Active	1 bit	state
E A	24	Standby Mode	1-Active	1 bit	state
E A	25	Standby Mode Status	0-Inactive,1-Active	1 bit	state
E I	26	Night Mode	1-Active	1 bit	state
H	27	Night Mode Status	0-Inactive,1-Active	1 bit	state
H	28	Protection Mode	1-Active	1 bit	state
	29	Protection Mode Status	0-Inactive,1-Active	1 bit	state

As default,

1 Byte Object [DPT_HVACMode];

Object Number 20 "Operating Mode" can be used to change between different modes. Object "Operating Mode Status" will send current status of operating mode after change.

\$01 – Comfort	[20.102 DPT_HVAC]
\$02 – Standby	[20.102 DPT_HVAC]
\$03 – Economy	[20.102 DPT_HVAC]
\$04 – Protection	[20.102 DPT_HVAC]

20	Operating Mode	1-Comfort, 2-Standby, 3-Night, 4-Protection	1 byte	HVAC mode
21	Operating Mode Status	1-Comfort, 2-Standby, 3-Night, 4-Protection	1 byte	HVAC mode

Heating Mode Setpoints:

Thermostat (RTC) has "4" operating modes; "Comfort Mode, Standby Mode, Night Mode and Protection Mode". Each operating mode has their own predefined setpoint temperature.

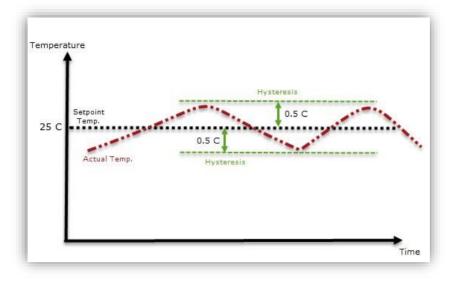
Changeover of operating modes can be achieved through "Operating Mode" communication objects.

Rocker Configuration			
Rocker	Heating Mode Setpoints		
NOCKEI	Comfort	22	≎ ≎
	Standby	20	‡ ℃
	Night	18	‡ °C
	Protection	7	≎ ‡

3.3.3. Heating - Control Type: [2-Point Control ON/OFF]

Control Type: [2-Point Control (On/Off), Switching PI Control (PWM), Continuous PI Control]

Operates as a simple switch around the setpoint temperature using hysteresis values. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool on and off. If system is more an active system, hysteresis values should be given larger and more inactive values.



Sending Interval (min): [0...15...255] 0=inactive

Determines cyclic sending period of Object "General Thermostat - Heating 2 Point Control Value".

Hysteresis +/- (x 0.1 °C): [1...5...255]

Determines Hysteresis value to control "Heating 2 Point Control Value" output more accurate. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool ON and OFF. If system is more an active system, hysteresis values should be given larger and more inactive values.

Additional Stage: Explained in #3.3.6. Heating - Additional Stage

General	Control Type	2 Point On/Off	•
Temperature Sensor	Sending Interval (min)	15	🔹 (0=inactive
RTC	Hysteresis ± (x0.1K)	5	* *
	Additional Stage	O Disable O Enable	
Settings	(A)		
Setpoints			
Heating			
Fan			

3.3.4. Heating - Control Type: [Switching PI Control PWM]

PI algorithm is used to calculate control signal. After calculation, control signal is converted into a pulse- interval signal. This means PWM cycle is divided into "1 bit ON/OFF" output commands based on control value. PWM period and type of heating should be selected according to the used room and type of heating.

PWM Period Time (min): [1...10...255]

Defines PWM period time. If control value is calculated %50. Then control value will be ON for 5 minutes and OFF for second 5 minutes. Please check following graphic.

50% duty cycle 50% on 50% off 10 min		L
75% duty cycle		
25% duty cycle 25% on 75% off		

Heating Type: Multiple heating types with preset parameters are available to the user.

Floor Heating (5K/240) How Water Heating (5K/150) Electrical Heating (4K/100) Fan coil (4K/90) User Defined

If the required heating type is not available, individual parameters can be specified in the "User Defined" configuration.

Proportional Range (x0.1 °C): [10...50...100]

Defines the proportional range of control. Parameter changes the control speed of the controller.

Integration Time (min): [1...240...255]

Defines the reset time of controller. Integration Time has the effect of moving the room temperature slowly toward, and ultimately reaching the setpoint value. Depending on the type of system used, parameter needs to have different values. In general, the more inactive the overall system, the greater time is needed.



General	Control Type	PWM-Switching PI Control	
Temperature Sensor	PWM Period Time (min)	10	
RTC	Heating Type	User Defined	
NIC	Proportional Range (x0.1K)	50	
Settings	Integration Time (min)	240	
Setpoints	Additional Stage	O Disable O Enable	
Heating			
Fan			
Rocker Configuration			
Rocker			

Additional Stage: Explained in #3.3.6. Heating - Additional Stage

3.3.5. Heating - Control Type: [Continuous PI Control PWM]

Pl algorithm is used to calculate control signal and adjusts its output value between 0% and 100% to match the difference between the actual temperature and the setpoint temperature and enables an accurate regulation of the room temperature to the setpoint value. Pl values should be selected compatible with the room and the type of heating system that needs to be controlled. Default Pl values are defined for most common heating types. User defined values can be used for different rooms and different heating types for better performance. Using default values as a reference point and adjusting these values according to system might increase controller performance.

General	Control Type	PI Continuous		-
Temperature Sensor	Heating Type	User Defined		•
RTC	Proportional Range (x0.1K)	50		+
NIC	Integration Time (min)	240		\$
Settings	Send Value On Change (%)	4	÷	(0=inactive)
Setpoints	Sending Interval (min)	15	÷	(0=inactive)
Heating	Additional Stage	O Disable O Enable		
Fan	62			
Rocker Configuration				
Rocker				

Heating Type: Multiple heating types with preset parameters are available to the user.

Floor Heating (5K/240) How Water Heating (5K/150) Electrical Heating (4K/100) Fan coil (4K/90) User Defined

If the required heating type is not available, individual parameters can be specified in the "User Defined" configuration.

Proportional Range (x0.1 °C): [10...50...100]

Defines the proportional range of control. Parameter changes the control speed of the controller.

Integration Time (min): [1...240...255]

Defines the reset time of controller. Integration Time has the effect of moving the room temperature slowly toward, and ultimately reaching the setpoint value. Depending on the type of system used, parameter needs to have different values. In general, the more inactive the overall system, the greater time is needed.

<u>Send Value on Change (%):</u> [0...4...100] 0=inactive

Heating control value will be sent on change of percentage via Object "General Temperature (RTC)– Heating PI Control Value".

Sending Interval (min): [0...15...255]

Determines cyclic sending period of Object "General Temperature (RTC) - Heating PI Control Value".

Additional Stage: Explained in #3.3.6. Heating - Additional Stage

3.3.6. Heating - Additional Stage

Additional Stage: [Disable...Enable]

Additional Heating Control object can be enabled if an extra Heating Control Value is needed on top of main Heat Control Value.

Object "Heating Additional Stage Value" is created when parameter is enabled.

Disable from Bus: Object "Heating Additional Stage Disable (1-Disable 0-Enable)" can be used to disable additional heating control any time by writing True/False.

- Eclipse RTC with 1 fold	> RTC > Heating		
General	Control Type	PI Continuous	•
Temperature Sensor	Heating Type	User Defined	-
RTC	Proportional Range (x0.1K)	50	4
inc.	Integration Time (min)	240	;
Settings	Send Value On Change (%)	4	🗘 (0=inactiv
Setpoints	Sending Interval (min)	15	🗘 (0=inactiv
Heating	Additional Stage	🔵 Disable 🔘 Enable	
Fan	Disable From Bus	🔵 No 🔘 Yes	
Rocker Configuration	Offset From Setpoint (x0.1K)	15	1
Rocker	Hysteresis ± (x0.1K)	5	-
	Sending Interval (min)	15	(0=inactiv

Offset from Setpoint (x 0.1 °C): [1...15...255]

Defines a separate setpoint value based on main Setpoint temperature for Object "Heating Additional Stage Value". In this way, Additional Heating Source will be activated/deactivated depending on new temperature setpoint.

Example: Assume that a room has two type of different heating sources. (Main heating source, additional heating source)

Setpoint temperature is 24 degrees for the "Heating Control Value" (main heating source.) If

"Offset from Setpoint" parameter is $20 \times 0.1 \text{ C}^\circ = 2 \text{ °C}$.

In this scenario, the setpoint for heating is set to 24 °C. When the temperature falls below 22 °C, additional heating should be switched on so that the room heats up again rapidly.

Hysteresis +/- (x 0.1 °C): [1...5...255]

Determines Hysteresis value to control Heating Additional Stage Value more accurate. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool ON and OFF. If system is more an active system, hysteresis values should be given larger and more inactive values.

Sending Interval (min): [0...15...255]

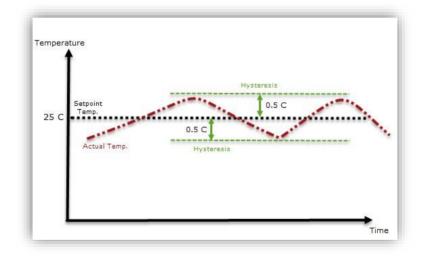
Determines cyclic sending period of Object "Heating Additional Stage Value".

3.3.7. Cooling - Control Type: [2-Point Control ON/OFF]

Control Type: [2-Point Control (On/Off), Switching PI Control (PWM), Continuous PI Control]

General	Control Type	2 Point On/Off	
Temperature Sensor	Sending Interval (min)	2 Point On/Off	19
	Hysteresis ± (x0.1K)	PWM-Switching PI Control	
- RTC	Additional Stage	PI Continuous Disable	
Settings	Additional stage		
Setpoints			
Cooling			
Fan			
Fan Rocker Configuration			

Operates as a simple switch around the setpoint temperature using hysteresis values. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool on and off. If system is more an active system, hysteresis values should be given larger and more inactive values.



Sending Interval (min): [0...15...255] 0=inactive

Determines cyclic sending period of Object "Cooling 2 Point Control Value".

Hysteresis +/- (x 0.1 °C): [1...5...255]

Determines Hysteresis value to control "Cooling 2 Point Control Value" output more accurate. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool ON and OFF. If system is more an active system, hysteresis values should be given larger and more inactive values.

General	Control Type	2 Point On/Off
Temperature Sensor	Sending Interval (min)	15 \$ (0=inac
RTC	Hysteresis ± (x0.1K)	5
	Additional Stage	Disable Enable
Settings		
Setpoints		
Cooling		

Additional Stage: Explained in #3.2.4.1.10. Cooling - Additional Stage

3.3.8. Cooling - Control Type: [Switching PI Control PWM]

Pl algorithm is used to calculate control signal. After calculation, control signal is converted into a pulse- interval signal. This means PWM cycle is divided into "1 bit ON/OFF" output commands based on control value. PWM period and type of cooling should be selected according to the used room and type of cooling source.

PWM Period Time (min): [1...10...255]

Defines PWM period time. If control value is calculated %50. Then control value will be ON for 5 minutes and OFF for second 5 minutes. Please check following graphic.

50% duty cycle 50% on 50% off 10 min		
75% duty cycle 75% on 25% off		
25% duty cycle 25% on 75% off		

Type of Cooling: Multiple cooling types with preset parameters are available to the user.

Cooling Ceiling (5K/240) Fan coil (4K/90) User Defined

If required cooling type is not available, individual parameters can be specified in the "User Defined" configuration.

Proportional Range (x0.1 °C): [10...50...100]

Defines the proportional range of control. Parameter changes the control speed of the controller.

Integration Time (min): [1...240...255]

Defines the reset time of controller. Integration Time has the effect of moving the room temperature slowly toward, and ultimately reaching the setpoint value. Depending on the type of system used, parameter needs to have different values. In general, the more inactive the overall system, the greater time is needed.

	- Eclipse RTC with 1 fold > RTC	> Cooling		
	General	Control Type	PWM-Switching PI Control	•
	Temperature Sensor	PWM Period Time (min)	10	*
_	RTC	Cooling Type	User Defined	•
	NIC	Proportional Range (x0.1K)	50	*
	Settings	Integration Time (min)	240	÷
	Setpoints	Additional Stage	Disable Enable	
	Cooling			
	Fan			

Additional Stage: Explained in #3.2.4.1.10. Cooling - Additional Stage

3.3.9. Cooling - Control Type: [Continuous PI Control PWM]

Pl algorithm is used to calculate control signal and adjusts its output value between 0% and 100% to match the difference between the actual temperature and the setpoint temperature and enables an accurate regulation of the room temperature to the setpoint value. Pl values should be selected compatible with the room and the type of heating system that needs to be controlled. Default Pl values are defined for most common cooling types. User defined values can be used for different rooms and different cooling types for better performance. Using default values as a reference point and adjusting these values according to system might increase controller performance.

Cooling Type: Multiple cooling types with preset parameters are available to the user.

Cooling Ceiling (5K/240) Fan coil (4K/90) User Defined

If the required cooling type is not available, individual parameters can be specified in the "User Defined" configuration.

Send Value On Change (%): [0...4...100] 0=inactive

Cooling control value will be sent on change of percentage via Object "Cooling PI Control Value".

Sending Interval (min): [0...15...255]

Determines cyclic sending period of Object "Cooling PI Control Value".

Additional Stage: Explained in #3.2.4.1.10. Cooling - Additional Stage

General	Control Type	PI Continuous		+
Temperature Sensor	Cooling Type	User Defined		•
- RTC	Proportional Range (x0.1K)	50		÷
me	Integration Time (min)	240		\$
Settings	Send Value On Change (%)	4	÷	(0=inactive)
Setpoints	Sending Interval (min)	15	÷	(0=inactive)
Cooling	Additional Stage	Disable Enable		
Fan				

3.3.10. Cooling – Additional Stage

Additional Stage: [Disable...Enable]

Additional Cooling Control object can be enabled if an extra Cooling Control Value is needed on top of main Cooling Control Value.

Object "Cooling Additional Stage Control Value" is created when parameter is enabled.

Disable from Bus: Object "Cooling Additional Stage Disable (1-Disable, 0-Enable)" can be used to disable additional cooling control any time by writing True/False.

General	Control Type	PI Continuous	-
Temperature Sensor	Cooling Type	User Defined	•
RTC	Proportional Range (x0.1K)	50	\$
NIC	Integration Time (min)	240	÷
Settings	Send Value On Change (%)	4	(0=inactive
Setpoints	Sending Interval (min)	15	‡ (0=inactive
Cooling	Additional Stage	🔵 Disable 🥥 Enable	
Fan	Disable From Bus	🔘 No 🔵 Yes	
Rocker Configuration	Offset From Setpoint (x0.1K)	15	\$
Rocker	Hysteresis ± (x0.1K)	5	÷
	Sending Interval (min)	15	(0=inactive

Offset from Setpoint (x 0.1 °C): [1...15...255]

Defines a separate setpoint value based on main Setpoint temperature for Object "Cooling Additional Stage Value". In this way, Additional Cooling Source will be activated/deactivated depending on new temperature setpoint.

Example: Assume that a room has two type of different heating sources. (Main cooling source, additional cooling source)

Setpoint temperature is 24 degree for the "Cooling Control Value" (main cooling source.) If

"Offset from Setpoint" parameter is; $20 \times 0.1 \text{ C}^\circ = 2 \text{ °C}$.

In this scenario, the setpoint for cooling is set to 24 °C. When the temperature rises above 26 °C, additional cooling should be switched on so that the room cools off again rapidly.

Hysteresis +/- (x 0.1 °C): [1...5...255]

Determines Hysteresis value to control Cooling Additional Stage Value more accurate. "Hysteresis" prevents the output value from oscillation and give larger margin to turning heat or cool ON and OFF. If system is more an active system, hysteresis values should be given larger and more inactive values.

Sending Interval (min): [0...15...255]

Determines cyclic sending period of Object "Cooling Additional Stage Value".

3.3.11. Heating & Cooling

Control mode of thermostat can be selected for Heating, Cooling, and Heating & Cooling, Air Conditioner.

If Heating & Cooling control mode is selected parameter tabs of "Heating" and "Cooling" will place with same parameters. However parameter tabs of "Thermostat Settings" and "Setpoint Temperature" will have some additional parameters.

Please check below.

-Thermostat Settings

Heating & Cooling Control Value Output: Output value for Heating and Cooling can be sent via same object or 2 separate objects.

If "via 1 Object" option is selected Object "Heating/Cooling Control Value" will be activated.

15	Heating/Cooling PI Control Value	[0 1 Percentage %]	1 byte	percentage (0100%)
	reading cooning recondentation	[o, i, electricage voj		percentage (antoava)

If "via 2 Objects" option is selected Object "Heating Control Value" and Object "Cooling Control Value" will be activated.

13	Heating PI Control Value	Percentage %	1 byte	percentage (0100%)
14	Cooling PI Control Value	Percentage %	1 byte	percentage (0100%)

General	Control Modes	Heating And Cooling	
Temperature Sensor	Heating and Cooling Control Value Output	🔵 via 1 Object 🔘 via 2 Objects	
RTC	Behaviour of Control Mode at Bus Recovery	As before voltage failure	1
	Switchover Control Mode	Only via Object	2
Settings	Window Contact	🔵 Disable 🔘 Enable	
Setpoints	Window Contact Value	Inverted O Not Inverted	
Heating			
Cooling			
Fan			



Behavior of Control Mode at Bus Recovery:

The parameter defines the behavior of the control mode after bus power return. Control mode can be changed to following options after a power return:

As before voltage failure Heating Cooling

Switchover Control Mode: [Only via Object, Local and via Object, Automatic]

Parameter makes possible to switch between the heating and cooling mode of the thermostat. Only

via Object:

Switchover can be applied only "via Object" manually using Object "Heating/Cooling Switchover".

\$01= Heating [1.100 DPT_cooling/heating]

\$00= Cooling [1.100 DPT_cooling/heating]

📫 11 Heating/Cooling S	Switchover 1-Heat, 0-Cool	1 bit	cooling/heating
------------------------	---------------------------	-------	-----------------

Local and via Object:

Switchover can be applied locally on thermostat by using super knob and also "via Object" manually using Object "Heating/Cooling Switchover".

<u>Automatic:</u> Eclipse thermostat switches automatically between heating and cooling and to the associated setpoint according to defined "Deadband". Object "– Heating/Cooling Status" will transmit the status after switchover.

Eclipse RTC with 1 fold	- Kre - Settings		
General	Control Modes	Heating And Cooling	
Temperature Sensor	Heating and Cooling Control Value Output	🔘 via 1 Object 🔵 via 2 Objects	
RTC	Behaviour of Control Mode at Bus Recovery	As before voltage failure	
	Switchover Control Mode	Only via Object	8
Settings	Window Contact	Only via Object	
Setpoints Heating	Window Contact Value	Local and via object Automatic	

<u>Heating Cooling Deadband (x 0.1 °C)</u>: [0...255]

Deadband defines the range between setpoint temperature and measured temperature. If Deadband is exceeded, switchover will be applied.

- Heating/Cooling Object Description

Heating / Cooling Indication

Object "Heating Indication" defines a state for recent heating command. It indicates that heating source is recently having an active command to heat. In same way, Object "Cooling Indication" defines a state for recent cooling command. It indicates that cooling source is recently having an active command to cool.

16	Heating Indication	1-Active	1 bit	state
17	Cooling Indication	1-Active	1 bit	state

Example: Heating mode is active. Setpoint Temperature 22 °C, Actual Temperature 21 °C.

Heating control value is sending ON command to heating source and "heating indication" is instantly informing about heating command.

10:59:52.375	1.5.8	0/7/3	GroupValue_Write	Setpoint Indication	0C 4C 22 ℃
10:59:52.398	1.5.8	0/7/6	GroupValue_Write	Actual Temperature	0C 6A 22.6 ℃
11:00:26.114	1.5.8	0/7/4	GroupValue_Write	Heating Control Value	\$00 Off
11:00:52.635	1.5.8	0/7/3	GroupValue_Write	Setpoint Indication	0C 4C 22 ℃
11:00:52.658	1.5.8	0/7/6	GroupValue_Write	Actual Temperature	0C 6A 22.6 ℃
11:01:05.541	15.15.241	0/7/18	GroupValue_Write	External Value	0C 1A 21 °C
11:01:07.700	1.5.8	0/7/6	GroupValue_Write	Actual Temperature	0C 1A 21 °C
11:01:08.299	1.5.8	0/7/4	GroupValue_Write	Heating Control Value	\$01 On
11:01:08.320	1.5.8	0/7/23	GroupValue Write	Heating Indication	\$01 Active

3.3.12. Fan

General	Fan Control	O Disable O Enable	
Temperature Sensor	Fan Display	Heating	
RTC	Control Unit has Fan Off	O No Ves	
	Control Unit has Fan Auto	🚫 No 🧿 Yes	
Settings	Fan Auto/Manual Object	🔵 Disable 🧕 Enable	
Setpoints	Fan Auto/Manual Control Value	Inverted 🔘 Not Inverted	
Heating	Number of Fan Stages	4	
	Fan Stage Object Type	🔵 1 Bit 🔘 1 Byte	
Cooling Fan	The second second second		

Fan Display: [Heating, Cooling, Heating and Cooling]

Fan control function can be visible and available only for selected control modes.



Control Unit has Fan Off: [No, Yes]

Parameter can be activated if actuator has a "Fan OFF" object. "Fan OFF" command can be sent to the actuator via Object "Fan Off (1-Off)" will be visible.

1 36	Fan Off	1-Off	1 bit	boolean
37	Fan Off Status	1-Off	1 bit	boolean

Control Unit has Fan Auto: [No, Yes]

Parameter can be activated if actuator has a "Fan auto" function.

Fan Auto/Manual Object: [Disable, Enable]

"Fan auto" command can be sent to the actuator via Object "General Thermostat (RTC) –Fan Auto/Manual (1-Auto)" will be visible.

34	Fan Auto/Manual	1-Auto, 0-Manual	1 bit	enable
35	Fan Auto/Manual Status	1-Auto, 0-Manual	1 bit	enable

Fan Auto/Manual Control Value: [Inverted, Not Inverted] Fan

auto command can be used inverse. [True or False]

Number of Fan Stages: [1...3...5]

Number of Fan levels can be changed according to control unit. Object will be available according to selection.

38	Fan Speed 1 Byte Enumerated Control	Speed Values: 0,1,2,3,4	1 byte	fan stage (0255)
39	Fan Speed 1 Byte Enumerated Status	Speed Values: 0,1,2,3,4	1 byte	fan stage (0255)

Fan Stage Object Type: [1 bit, 1 Byte]

Type of Fan stage object can be changed as 1 bit or 1 Byte. 1 Byte object can be used as "Enumerated" or "Scaling".

Fan Speed Enumerated (0, 1, 2, 3, 4)

Fan Speed Scaling (0, 25, 50, 75, 100) %

1 bit objects;

42	Fan Speed 1	1-Active	1 bit	state
43	Fan Speed 1 Status	0-Inactive,1-Active	1 bit	state
44	Fan Speed 2	1-Active	1 bit	state
45	Fan Speed 2 Status	0-Inactive,1-Active	1 bit	state
46	Fan Speed 3	1-Active	1 bit	state
47	Fan Speed 3 Status	0-Inactive,1-Active	1 bit	state
48	Fan Speed 4	1-Active	1 bit	state
49	Fan Speed 4 Status	0-Inactive,1-Active	1 bit	state

3.3.13. Air Conditioner

Control mode of thermostat can be selected for Heating, Cooling, and Heating & Cooling, Air Conditioner.

If Air Conditioner control mode is selected, parameters and objects will change especially for Air Conditioners. Please check below.

Control Type	🔘 via External Gateway 🔵 via Build-in Gateway
Control Modes Object Type	🔵 1 Bit 🔘 1 Byte
Heat/Cool Mode 1 Bit Object	🔵 Disable 🔘 Enable
Control Unit has Fan Auto	🔘 No 🔵 Yes
Number of Fan Stages	3 🔹
Fan Stage Object Type	🔵 1 Bit 🔘 1 Byte
	Enumerated Scaling
Vanes Up-Down Display	O Disable C Enable
Vanes Left-Right Display	O Disable C Enable

Control Type: [via External Gateway, via Build-in Gateway]

An External VRV KNX gateway must be used in combination with Eclipse Thermostat.

Control Type: [via Build-in Gateway]

Eclipse Thermostat is used with built-in VRV gateway for the particular brand of air conditioner. (optional, builtin VRV module must be ordered with Eclipse Thermostat)

Is Gateway in Master Mode: [No, Yes]

Parameter defines the working mode of the gateway. Master or slave. Check more details in Ac Gateway User Manuals. <u>https://core.com.tr/ac-knx-gateways/</u>

Control Modes Object Type: [1 Bit, 1 Byte]

Control mode can be selected using 1 Byte Object "AC Control Modes (0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry)".

52	AC Control Modes	0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry	1 byte	HVAC control mode
53	AC Control Modes Status	0-Auto, 1-Heat, 3-Cool, 9-Fan, 14-Dry	1 byte	HVAC control mode

Or 1 bit Objects;

54	AC Auto Mode	1-Active	1 bit	state
55	AC Auto Mode Status	0-Inactive,1-Active	1 bit	state
56	AC Heat Mode	1-Active	1 bit	state
57	AC Heat Mode Status	0-Inactive,1-Active	1 bit	state
58	AC Cool Mode	1-Active	1 bit	state
59	AC Cool Mode Status	0-Inactive,1-Active	1 bit	state
60	AC Fan Mode	1-Active	1 bit	state
[1] 61	AC Fan Mode Status	0-Inactive,1-Active	1 bit	state
[1 62	AC Dry Mode	1-Active	1 bit	state
63	AC Dry Mode Status	0-Inactive,1-Active	1 bit	state

Heat/Cool Mode 1 Bit Object: [Disable, Enable]

Parameter disables the switchover object to change between heating and cooling mode.

Control Unit has Fan Auto: [No, Yes]

If control unit has fan auto feature, Object Number 34 "Fan Auto/Manual 1-Auto, 0-Manual" can be activated.

Setpoints		
Air Conditioner	Control Unit has Fan Auto	🔵 No 🔘 Yes
All Conditioner	Fan Auto/Manual Object	🔵 Disable 🔘 Enable
Rocker Configuration	Fan Auto/Manual Control Value	Inverted O Not Inverted

Fan Auto/Manual Object: [Disable, Enable]

"Fan auto" command can be sent to the actuator via Object Number 34 "Fan Auto/Manual 1-Auto, 0-Manual".

Fan Auto/Manual Control Value: [Inverted, Not inverted] Fan

auto command can be used inverse. [True or False]

Number of Fan Stages: [1...3...5]



Number of Fan levels can be changed according to control unit. Object will be available according to selection.

38	Fan Speed 1 Byte Enumerated Control	Speed Values: 0,1,2,3	1 byte	fan stage (0255)
39	Fan Speed 1 Byte Enumerated Status	Speed Values: 0,1,2,3	1 byte	fan stage (0255)

Fan Stage Object Type: [1 bit, 1 Byte]

Type of Fan stage object can be changed as 1 bit or 1 Byte. 1 Byte object can be used as "Enumerated" or "Scaling".

Fan Speed Enumerated (0, 1, 2, 3, 4)

Fan Speed Scaling (0, 25, 50, 75, 100) %

1 bit objects;

42	Fan Speed 1	1-Active	1 bit	state
43	Fan Speed 1 Status	0-Inactive,1-Active	1 bit	state
44	Fan Speed 2	1-Active	1 bit	state
45	Fan Speed 2 Status	0-Inactive,1-Active	1 bit	state
46	Fan Speed 3	1-Active	1 bit	state
47	Fan Speed 3 Status	0-Inactive,1-Active	1 bit	state

Fan Step +/- Object: [Disable, Enable]

Object Number 64 "AC Fan Step 1-Increase, 0-Decrease" will be available to change fan speed step by step.

64	AC Fan Step	1-Increase, 0-Decrease	1 bit	step

Fan Step Object: [Inverted, Not inverted]

Fan step object value can be used inverse. [0-Increase, 1-Decrease]

Vanes Up-Down: [Disable, Enable]

Up-Down vane control can be activated using Object "AC Vanes Up-Down".

65	AC Vanes Up-Down	Enumerated (0-255)	1 byte	counter pulses (0255
66	AC Vanes Up-Down Status	Enumerated (0-255)	1 byte	counter pulses (0255

Vanes Left-Right: [Disable, Enable]

Left-Right vane control can be activated using Object "AC Vanes Left-Right".



67	AC Vanes Left-Right	Enumerated (0-255)	1 byte	counter pulses (0.255)
68	AC Vanes Left-Right Status	Enumerated (0-255)	1 byte	counter pulses (0255)

3.4. Rocker Configuration

Two working modes are available for the rocker. [Rocker oriented, Button Oriented]

General	Working Mode	Rocker Oriented Button Oriented
Temperature Sensor		
- RTC		
Settings		
Setpoints		
Air Conditioner		
Rocker Configuration		
Rocker		

<u>Rocker oriented functions:</u> [Switch, Dimming, Shutter and Value]

Eclipse RTC with 1 fold	> Rocker		
General	Rocker Configuration		
Temperature Sensor	Rocker Function	None	
		None	
RTC	Led Configuration	Switch	
		Dimming	
Settings	Led Function	Shutter	
Setpoints	Seperated Communication Object	Value	

3.4.1. Rocker Oriented [Switch]

Working mode is selectable for left and right buttons. [Left Button = ON; Right Button=OFF]

Eclipse RTC with 1 fold :	> Rocker		
General	Rocker Configuration		
Temperature Sensor	Rocker Function	Switch	•
- RTC	Working Mode	Left Button=On, Right Button=Off Left Button=Off, Right Button=On	
Settings Setpoints	Led Configuration		
Air Conditioner	Led Function Seperated Communication Object	Seperate Communication Object	•
Rocker Configuration	Blinking Period (x100ms)	0	¢
Rocker	On Command		
	Color	White	•
	Off Command		
	Color	Off	-
	Jamming Configuration		
	Jamming Function	O Disable Enable	

Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, **Separate Communication Object** and Operation Indication.

Led Configuration		
Led Function	Seperate Communication Object	-
	Permanently On Permanently Off Status Indication	
	Seperate Communication Object Operation Indication	~

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]



Led Configuration		
Led Function	Permanently On	•
Color	White	•
	Off Red Green Blue Cyan Magenta White Amber	~

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] – OFF Command [Off]

Blink Period (x100 ms): [0...100]

Status LED will blink for the time period selected at "Blinking Period" parameter. (Blinking interval is fixed.)

Led Configuration		
Led Function	Status Indication	•
Status Indication	O Inverted O Not Inverted	
Blinking Period (x100ms)	0	* *
On Command		
Color	White	•
Off Command		
Color	Off	•

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration		
Led Function	Seperate Communication Object	•
Seperated Communication Object	Inverted O Not Inverted	
Blinking Period (x100ms)	0	▲ ∵
On Command		
Color	White	•
Off Command		
Color	Off	•



Led Function [Operation indication]: Status LED of rocker button will stay on the color selected for "OFF command" until it is pressed. The pressed button will stay on the color selected for "ON command" until it is released.

Blink Period (x100 ms): [0...100]

Status LED will blink for the time period selected at "Blinking Period" parameter. (Blinking interval is fixed.)

Led Configuration	
Led Function	Operation Indication 👻
Blinking Period (x100ms)	0 *
Color	White -

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 78 – "Rocker - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configurations		
Jamming Function	🔵 Disable 🔘 Enable	
Use Inverted Jamming Function	Not Inverted Inverted	

3.4.2. Rocker Oriented [Dimming]

Working mode is selectable for left and right buttons. [Left Button = ON/Brighter; Right Button=OFF/Darker]

Dimming Step: Dimming step percentage can be changed to specify the maximum dimming step width of a dimming telegram. With a dimming message, you can dim by a maximum of X %.

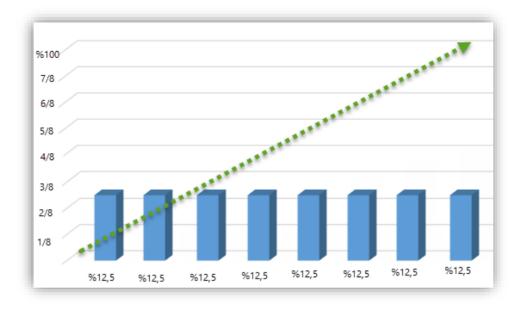
(%100 option represents "Start-stop" dimming function. Other percentage values correspond to "step dimming function".)

Long Press Duration (x100 ms): Long press duration can be changed. [0...10...100] As

default; 100 ms x 10=1000 ms (1 second)

Switch will start to send dimming up/down commands after each press longer than "1 second".







Step Send Period (x100): Defines time interval between two dimming step commands.

Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	-
	Permanently On	
Jamming Configurations Jamming Function	Permanently Off	~
	Status Indication	
	Separate Communication Object	
	Operation Indication	



Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 💌

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] – OFF Command [Off]

Led Configuration		
Led Function	Status Indication	•
Status Indication	Inverted O Not Inverted	
Blinking Period (x100ms)	0	* *
On Command		
Color	White	*
Off Command		
Color	Off	•

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration		
Led Function	Seperate Communication Object	-
Seperated Communication Object	Inverted O Not Inverted	
Blinking Period (x100ms)	0	*
On Command		
Color	White	-
Off Command		
Color	Off	•

Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	*
Color	White	•

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.3. Rocker Oriented [Shutter]

Working mode is selectable for left and right buttons. [Left Button = UP; Right Button=DOWN]

Long Press Duration (x100 ms): Long press duration can be changed. [5...65535] As

default; 100 ms x 10=1000 ms (1 second)

Switch will start to send move up/down commands after each press longer than "1 second". Switch will send Step/Stop command on each short press,

Rocker Configuration		_
Rocker Function	Shutter	•
Working Mode	Left Button=Up, Right Button=Down Left Button=Down, Right Button=Up	
Long Press Duration (x100ms)	5	*
Led Configuration		
Led Function	Seperate Communication Object	•



Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	-
	Permanently On	
Jamming Configurations	Permanently Off	~
jj	Status Indication	
Jamming Function	Separate Communication Object	
	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led C	onfiguration	
Led F	unction	Permanently On 🔹
C	olor	White 💌

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] - OFF Command [Off]

Led Configuration		
Led Function	Status Indication	·
Status Indication	Inverted O Not Inverted	
Blinking Period (x100ms)	0	,
On Command		
Color	White	
Off Command		
Color	Off •	,

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)



Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration		
Led Function	Seperate Communication Object	•
Seperated Communication Object	O Inverted O Not Inverted	
Blinking Period (x100ms)	0	*
On Command		
Color	White	•
Off Command		
Color	Off	•

Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	▲ ▼
Color	White	•

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	Inverted O Not Inverted

3.4.4. Rocker Oriented [Value]

Working mode is selectable for left and right buttons. [Left Button = VALUE 1; Right Button= VALUE 2]

- Selectable data types:
- 1 bit value
- 1 Byte Unsigned Value
- 1 Byte Signed Value
- 1 Byte Percentage
- 2 Byte Unsigned Value
- 2 Byte Signed Value
- 2 Bytes Floating Value

Gene	eral	Rocker Configuration		
Temr	perature Sensor	Rocker Function	Value	•
– RTC		Working Mode	Left Button=Value 1, Right Button=Value 2 Left Button=Value 2, Right Button=Value 1	
Sett	tings	Value Data Type	1 Bit	•
Setp	points	Value 1 Value	1 Bit 1 Byte Unsigned 1 Byte Signed	~
Hea Fan	ating	Value 2	1 Byte Percentage 2 Byte Unsigned	
Rock	er Configuration	Value	2 Byte Signed 2 Byte Floating	
Ro	Rocker	Led Configuration		
		Led Function	Seperate Communication Object	-
		Seperated Communication Object	Not Inverted Inverted	

Led configurations:

Available functions: Permanently OFF, Permanently ON, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	•
	Permanently On	
Jamming Configurations	Permanently Off	~
Janining Configurations	Separate Communication Object	
Jamming Function	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 💌

Led Function [Permanently OFF]: LED is always OFF.

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration	
Led Function	Seperate Communication Object 🔹
Seperated Communication Object	O Inverted O Not Inverted
Blinking Period (x100ms)	0
On Command	
Color	White -
Off Command	
Color	Off 🗸



Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	*
Color	White	•

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.5. Button Oriented [Switch]

Action on press: [On, Off, Toggle] selected data will be sent to KNX bus for each press of button. Action

on release: [On, Off, Toggle] selected data will be sent to KNX bus for each release of button.

Button Function	Switch	•
Long Press Enable	O Disable C Enable	
Action on Press	None	•
Action on Release	None	-
	On	
	Off	
LED Configurations	Toggle	

Long press function can be activated. Disabled as default.

ON, Off, Toggle commands can be sent separately using short and long press functions.

Button Configurations		
Button Function	Switch	•
Long Press Enable	🔵 Disable 🔘 Enable	
Short Press Function	Toggle	•
Long Press Function	Toggle	•
Long Press Duration (x100ms)	None On Off	
LED Configurations	Toggle	~

Long Press Duration(x100 ms): Long press duration can be changed. [0...10...100] As

default; 100 ms x 10=1000 ms (1 second)

Switch will send "Long press" command after each press longer than "1 second".

Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	-
	Permanently On	
Jamming Configurations	Permanently Off	 ✓
Samining Comgarations	Status Indication	
Jamming Function	Separate Communication Object	
	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 👻

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] - OFF Command [Off]



Led Configuration		
Led Function	Status Indication	•
Status Indication	Inverted O Not Inverted	
Blinking Period (x100ms)	0	* *
On Command		
Color	White	•
Off Command		
Color	Off	•

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration	
Led Function	Seperate Communication Object 🔹
Seperated Communication Object	O Inverted O Not Inverted
Blinking Period (x100ms)	0 *
On Command	
Color	White -
Off Command	
Color	Off •

Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	* *
Color	White	•

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.6. Button Oriented [Dimming]

"Action on Short press" can be selected for "ON, OFF, TOGGLE" commands. Using Long press function, Dim direction is changeable for "BRIGHTER, DARKER, BRIGHTER/DARKER" commands.

General	Button Function	Dimming	
Temperature Sensor	Action On Short Press	Toggle	
RTC	Dim Direction On Long Press	Brighter/Darker	
NIC	Long Press Duration (x100ms)	10	
Rocker Configuration	Dimming Step	100%	73
Button 1	Step Send Period (x100ms)	10	

Long Press Duration (x100 ms): [0...10...100]

Long press duration can be changed. As default; 100 ms x 10=1000 ms (1 second)

Switch will start to send dimming up/down commands after each press longer than "1 second".

Dimming Step: Dimming step percentage can be changed to specify the maximum dimming step width of a dimming telegram. With a dimming message, you can dim by a maximum of X %.

(%100 option represents "Start-stop" dimming function. Other percentage values correspond to "step dimming function".)

Step Send Period (x100): [5...10...65535]

Defines time interval between two dimming step commands.

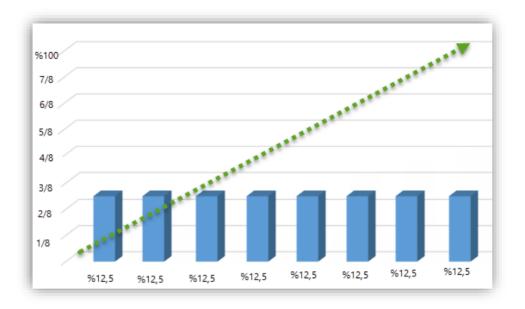


Figure 3 - Dimming Step Command

Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	•
	Permanently On	
Jamming Configurations	Permanently Off	 ✓
Jamming Comgutations	Status Indication	
Jamming Function	Separate Communication Object	
	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 👻

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] - OFF Command [Off]



Led Configuration	
Led Function	Status Indication 🔹
Status Indication	O Inverted O Not Inverted
Blinking Period (x100ms)	0 *
On Command	
Color	White 👻
Off Command	
Color	Off •

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration	
Led Function	Seperate Communication Object 🔹
Seperated Communication Object	O Inverted O Not Inverted
Blinking Period (x100ms)	0 *
On Command	
Color	White -
Off Command	
Color	Off •

Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	*
Color	White	•



Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.7. Button Oriented [Shutter]

Shutter command can be selected for each long press [UP, DOWN, UP/DOWN].

Switch will start to send [UP, DOWN, UP/DOWN] commands after each press longer than "1 second". Switch will send Step/Stop command on each short press,

Long Press Duration(x100 ms): [0...10...100]

Long press duration can be changed. As default; 100 ms x 10=1000 ms (1 second)

Eclipse RTC with 1 fold >	Button 1		
General	Button Function	Shutter	•
Temperature Sensor	Shutter Function	Up/Down	-
+ RTC	Long Press Duration (x100ms)	10	÷
Rocker Configuration	Led Configuration		
Button 1	Led Function	Seperate Communication Object	
Button 2	Seperated Communication Object	Inverted O Not Inverted	

Led configurations:

Available functions: Permanently OFF, Permanently ON, Status Indication, Separate Communication Object and Operation Indication.

LED Configurations		
ed Function	Permanently Off	•
	Permanently On	
Jamming Configurations	Permanently Off	 ✓
	Status Indication	
amming Function	Separate Communication Object	
	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 👻

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] – OFF Command [Off]

Led Configuration	
Led Function	Status Indication 💌
Status Indication	O Inverted O Not Inverted
Blinking Period (x100ms)	0
On Command	
Color	White 👻
Off Command	
Color	Off 🗸

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration		
Led Function	Seperate Communication Object	•
Seperated Communication Object	O Inverted O Not Inverted	
Blinking Period (x100ms)	0	* *
On Command		
Color	White	•
Off Command		
Color	Off	•



Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	* *
Color	White	•

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.8. Button Oriented [Scene]

Scene number determines which scene (1...64) is to be recalled and stored. 64 different scenes can be managed by using single group address on different buttons.

Each short press will call the selected scene. Storing of the current scene can be triggered by long press action. Please check example group monitor record.



General	Button Function	Scene	
Temperature Sensor	Scene Number	1	
	Mode	Send Scene Send Scene and Save at Long Press	
Rocker Configuration			
Button 1	Led Configuration		
Button	Led Function	Seperate Communication Object	
Button 2	Seperated Communication Object	O Inverted O Not Inverted	
	Blinking Period (x100ms)	0	
	On Command		
	Color	White	,
	Off Command		
	Color	Off	,

Example: Short press -> Button 1 is calling scene number 1.

Long press ->Button 1 is sending the "store scene command" for scene number 1.

# *	Time	Destination A	Destination	Info	Туре	DPT
1	10/03/2023 11:35:32.962	0/7/7	Scene	\$00 Activate #1	GroupValue_Write	18.001 scene control
2	10/03/2023 11:35:34.704	0/7/7	Scene	\$80 Learn #1	GroupValue_Write	18.001 scene control

Long Press Duration (x100 ms): [0...10...100]

Long press duration can be changed. As default; 100 ms x 10=1000 ms (1 second)

Led configurations:

Available functions: Permanently OFF, Permanently ON, Separate Communication Object and Operation Indication.

LED Configurations		
Led Function	Permanently Off	•
	Permanently On	
Jamming Configurations	Permanently Off	~
Janning configurations	Separate Communication Object	
Jamming Function	Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]

Led Configuration	
Led Function	Permanently On 🔹
Color	White 💌

Led Function [Permanently OFF]: LED is always OFF.

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration	
Led Function	Seperate Communication Object 🔹
Seperated Communication Object	O Inverted O Not Inverted
Blinking Period (x100ms)	0
On Command	
Color	White 👻
Off Command	
Color	Off •



Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.

Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)	0	* *
Color	White	•

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

3.4.9. Button Oriented [Value]

"Short Press Function" determines the data type for the short press. When button is pressed, selected data will be sent KNX bus via respective communication object.

Long press function can be enable to send another data type by pressing longer to the same button.

 Following data types are Selectable for short and long press:
 1 bit value

 1 Byte Unsigned Value
 1 Byte Signed Value

 1 Byte Percentage
 2 Byte Unsigned Value

 2 Byte Unsigned Value
 2 Byte Signed Value

 2 Byte Signed Value
 2 Byte Signed Value



General		Button Function	Value	•
Temperature Ser	sor	Short Press Function	1 Bit	•
+ RTC		Value	Off	•
		Long Press	Oisable O Enable	
Rocker Configur		Long Press Function	1 Bit	•
Button 1		Value	Off	•
Button 2		Long Press Duration (x100ms)	10	*

Long Press Duration (x100 ms): [0...10...100]

Long press duration can be changed. As default; 100 ms x 10=1000 ms (1 second)

Led configurations:

Available functions: Permanently OFF, Permanently ON, Separate Communication Object and Operation Indication.

LED Configurations

Led Function

Jamming Configurations

Jamming Function

Permanently Off	•
Permanently On	
Permanently Off	
Separate Communication Object	
Operation Indication	

Led Function [Permanently ON]: LED is always ON for selected color. [Red, Green, Blue, Cyan, Magenta, White, Amber]



Led Config	uration	
Led Functio	n	Permanently On 👻
Color		White 👻

Led Function [Permanently OFF]: LED is always OFF.

Led Function [Status indication]: LED color will change according to status information. On

command [white] - OFF Command [Off]

Led Configuration		
Led Function	Status Indication	•
Status Indication	Inverted O Not Inverted	
Blinking Period (x100ms)	0	* *
On Command		
Color	White	•
Off Command		
Color	Off	•

Blink duration: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Led Function [Separate Communication Object]: LED color will change according to value received by LED status object.

Led Configuration		
Led Function	Seperate Communication Object	-
Seperated Communication Object	O Inverted O Not Inverted	
Blinking Period (x100ms)	0	▲ ▼
On Command		
Color	White	-
Off Command		
Color	Off	•

Led Function [Operation indication]: Status LED of rocker button will stay on color selected for "OFF command" until it is pressed. The pressed button will stay on color selected for "ON command" until it is released.



Led Configuration		
Led Function	Operation Indication	•
Blinking Period (x100ms)		* *
Color	White	•

<u>Blink duration</u>: Status LED of the pressed rocker button will blink for the time period selected at "Blink Duration(s)" parameter. (Blinking interval is fixed.)

Jamming Configurations:

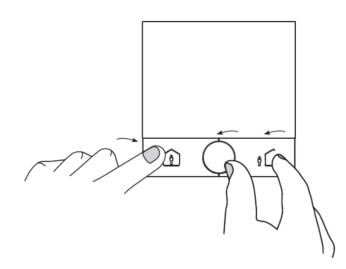
Jamming function is used to block to respective button or rocker via Object Number 9 – "Rocker X - Jamming" by writing "true or false" data from the bus. Button will not work until it is enabled via jamming object.

Jamming Configuration	
Jamming Function	🔵 Disable 🔘 Enable
	O Inverted O Not Inverted

4. Commissioning

For commissioning the device, the following activities are required:

- Make electrical connections
- Turn on the bus power supply
- Switch the device operation to programming mode
 - Alternatively, instead of using programming button, it is possible to switch operation of the device to programming mode by pressing button 1, button 2 and super knob simultaneously



- Download into device the physical address and the configuration with ETS program
- At the end of the download operation of the device returns to normal mode
- Now the device is programmed and ready to use



Configuration and commissioning of the device require the use of ETS4 or later releases. These activities must be carried out according to the design of the building automation system done by a qualified planner.

5. Communication Objects

No	Name	Function	Object Size	Flags	Datapoint Type
1	General	Alive Beacon	1 Bit	R-CT	[1.17] DPT_Trigger
2	Thermostat	Disabling Function (1-Disable, 0- Enable)	1 Bit	-WCTU-	[1.2] DPT_Bool
3	Proximity	Approach Switching Value	1 Bit	R-CT	[1.5] DPT_Alarm
4	Ambient	Darkness Switching Value	1 Bit	CT	[1.1] DPT_Switch
5	Humidity	Internal Value (%)	2 Bytes	R-CT	[9.7] DPT_Value_Humidity
6	Humidity	External Value (%)	2 Bytes	-WCTU-	[9.7] DPT_Value_Humidity
7	CO2	Internal Value (ppm)	2 Bytes	R-CT	[9.8] DPT_Value_AirQuality
8	CO2	External Value (ppm)	2 Bytes	-WCTU-	[9.8] DPT_Value_AirQuality
9	CO2	Air Quality Index (0-Off, 1-Poor, 2- Satisfactory, 3-Good)	1 Byte	R-CT	
10	CO2	Poor Level Switching Value	1 Bit	CT	[1.5] DPT_Alarm
11	Temperature	Actual Temperature (°C)	2 Bytes	R-CT	[9.1] DPT_Value_Temp
12	Temperature	External Temperature (°C)	2 Bytes	-WCTU-	[9.1] DPT_Value_Temp
13	Thermostat	Heating/Cooling Switchover	1 Bit	-WCTU-	[1.100] DPT_Heat_Cool
14	Thermostat	Heating/Cooling Switchover Status	1 Bit	R-CT	[1.100] DPT_Heat_Cool
15	Thermostat	Heating Control Value [0,1,Percentage %]	1 Byte	R-CT	[5.1] DPT_Scaling
16	Thermostat	Cooling Control Value [0,1,Percentage %]	1 Byte	R-CT	[5.1] DPT_Scaling
17	Thermostat	Heating/Cooling Control Value [0,1,Percentage %]	1 Byte	R-CT	[5.1] DPT_Scaling
18	Thermostat	Heating Indication (0-Inactive,1- Active)	1 Bit	R-CT	[1.11] DPT_State
19	Thermostat	Cooling Indication (0-Inactive,1- Active)	1 Bit	R-CT	[1.11] DPT_State
20	Thermostat	Additional Heating Controller Disable	1 Bit	-WCTU-	[1.3] DPT_Enable
21	Thermostat	Additional Heating Controller Status	1 Bit	R-CT	[1.3] DPT_Enable
22	Thermostat	Additional Heating Control Value	1 Bit	R-CT	[1.1] DPT_Switch
23	Thermostat	Additional Cooling Controller Disable	1 Bit	-WCTU-	[1.3] DPT_Enable
24	Thermostat	Additional Cooling Controller Status	1 Bit	R-CT	[1.3] DPT_Enable
25	Thermostat	Additional Cooling Control Value	1 Bit	R-CT	[1.1] DPT_Switch
26	Thermostat	Operating Mode	1 Byte	-WCTU-	[20.102] DPT_HVACMode
27	Thermostat	Operating Mode Status	1 Byte	R-CT	[20.102] DPT_HVACMode
28	Thermostat	Operating Mode (prev/next)	1 Bit	-WCTU-	[1.2] DPT_Bool
29	Thermostat	Comfort Mode	1 Bit	-WCTU-	[1.11] DPT_State
30	Thermostat	Comfort Mode Status	1 Bit	R-CT	[1.11] DPT_State
31	Thermostat	Standby Mode	1 Bit	-WCTU-	[1.11] DPT_State
32	Thermostat	Standby Mode Status	1 Bit	R-CT	[1.11] DPT_State
33	Thermostat	Night Mode	1 Bit	-WCTU-	[1.11] DPT_State
34	Thermostat	Night Mode Status	1 Bit	R-CT	[1.11] DPT_State
35	Thermostat	Protection Mode	1 Bit	-WCTU-	[1.11] DPT_State
36	Thermostat	Protection Mode Status	1 Bit	R-CT	[1.11] DPT_State
37	Thermostat	Setpoint Control	2 Bytes	-WCTU-	[9.1] DPT_Value_Temp
38	Thermostat	Setpoint Status	2 Bytes	R-CT	[9.1] DPT_Value_Temp
39	Thermostat	Setpoint (-/+)	1 Bit	-WCTU-	[1.7] DPT_Step
40	Thermostat	Fan Speed Enumerated	1 Byte	R-CT	[5.100] DPT_FanStage
41	Thermostat	Fan Speed Enumerated Status	1 Byte	-WCTU-	[5.100] DPT_FanStage
42	Thermostat	Fan Speed Scaling	1 Byte	R-CT	[5.1] DPT_Scaling

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43	Thermostat	Fan Speed Scaling Status	1 Byte	-WCTU-	[5.1] DPT_Scaling
44	Thermostat	Fan 1	1 Bit	R-CT	[1.11] DPT_State
45	Thermostat	Fan 1 Status	1 Bit	-WCTU-	[1.11] DPT_State
46	Thermostat	Fan 2	1 Bit	R-CT	[1.11] DPT_State
47	Thermostat	Fan 2 Status	1 Bit	-WCTU-	[1.11] DPT_State
48	Thermostat	Fan 3	1 Bit	R-CT	[1.11] DPT_State
49	Thermostat	Fan 3 Status	1 Bit	-WCTU-	[1.11] DPT_State
50	Thermostat	Fan 4	1 Bit	R-CT	[1.11] DPT_State
51	Thermostat	Fan 4 Status	1 Bit	-WCTU-	[1.11] DPT_State
52	Thermostat	Fan 5	1 Bit	R-CT	[1.11] DPT_State
53	Thermostat	Fan 5 Status	1 Bit	-WCTU-	[1.11] DPT_State
54	Thermostat	Fan Auto/Manual (1-Auto)	1 Bit	R-CT	[1.3] DPT_Enable
55	Thermostat	Fan Auto/Manual Status (1-Auto)	1 Bit	-WCTU-	[1.3] DPT_Enable
56	Thermostat	Fan Off (1-Off)	1 Bit	R-CT	[1.11] DPT_State
57	Thermostat	Fan Off Status (1-Off)	1 Bit	-WCTU-	[1.11] DPT_State
58	Thermostat	Thermostat On/Off	1 Bit	-WCTU-	[1.1] DPT_Switch
59	Thermostat	Thermostat On/Off Status	1 Bit	R-CT	[1.1] DPT_Switch
60	Thermostat	Window Contact	1 Bit	-WCTU-	[1.19] DPT_Window_Door
61	Air	Control On/Off	1 Bit	CT	[1.1] DPT_Switch
	Conditioner				
62	Air	Control On/Off Status	1 Bit	-WCTU-	[1.1] DPT_Switch
60	Conditioner Air	Satagint Control	2 Dutes	CT	IO 11 DDT Value Temp
63	Conditioner	Setpoint Control	2 Bytes	01	[9.1] DPT_Value_Temp
64	Air	Setpoint Status	2 Bytes	-WCTU-	[9.1] DPT_Value_Temp
	Conditioner				[0.1]
65	Air	Setpoint (-/+)	1 Bit	-WCTU-	[1.7] DPT_Step
	Conditioner		1.5%		
66	Air Conditioner	Control Mode Heat/Cool (1-Heat, 0- Cool)	1 Bit	CT	[1.100] DPT_Heat_Cool
67	Air	Control Mode Heat/Cool Status (1-	1 Bit	-WCTU-	[1.100] DPT_Heat_Cool
01	Conditioner	Heat, 0-Cool)	1 Bit		
68	Air	Control Modes (0-Auto, 1-Heat, 3-	1 Byte	CT	[20.105]
	Conditioner	Cool, 9-Fan, 14-Dry)			DPT_HVACContrMode
69	Air	Control Modes Status (0-Auto, 1-	1 Byte	-WCTU-	[20.105]
70	Conditioner Air	Heat, 3-Cool, 9-Fan, 14-Dry) Auto Mode	1 Bit	CT	DPT_HVACContrMode [1.11] DPT_State
10	Conditioner	Auto mode	1 Dit	01	
71	Air	Auto Mode Status	1 Bit	-WCTU-	[1.11] DPT_State
	Conditioner				
72	Air	Heat Mode	1 Bit	CT	[1.11] DPT_State
70		Lloot Mode Status	1 D:4		
73	Air Conditioner	Heat Mode Status	1 Bit	-WCTU-	[1.11] DPT_State
74	Air	Cool Mode	1 Bit	CT	[1.11] DPT_State
	Conditioner				[]ouuo
75	Air	Cool Mode Status	1 Bit	-WCTU-	[1.11] DPT_State
	Conditioner				
76	Air	Fan Mode	1 Bit	CT	[1.11] DPT_State
77	Conditioner Air	Fan Mode Status	1 Bit	-WCTU-	[1.11] DPT_State
	Conditioner			-**010-	
78	Air	Dry Mode	1 Bit	CT	[1.11] DPT_State
	Conditioner	-			
79	Air	Dry Mode Status	1 Bit	-WCTU-	[1.11] DPT_State
	Conditioner				
80	Air Conditioner	Fan Speed Enumerated	1 Byte	CT	[5.100] DPT_FanStage
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VV VV	w.corc.com.tl				CO

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81 Air Conditioner Ena Speed Enumerated Status 1 Byte -WCTU- [5.100] DPT_FanStage 82 Air Conditioner Fan Speed Scaling 1 Byte -CT [5.1] DPT_Scaling 83 Air Conditioner Fan Speed Scaling Status 1 Byte -WCTU- [5.1] DPT_Scaling 84 Air Conditioner Fan 1 Status 1 Bit -CT [1.1] DPT_State 85 Air Conditioner Fan 1 Status 1 Bit -CT [1.1] DPT_State 86 Air Conditioner Fan 2 Status 1 Bit -CT [1.1] DPT_State 87 Air Conditioner Fan 3 Status 1 Bit -CT [1.1] DPT_State 88 Air Conditioner Fan 4 Status 1 Bit -CT [1.1] DPT_State 90 Air Conditioner Fan 4 Status 1 Bit -CT [1.1] DPT_State 91 Air Conditioner Fan 5 Status 1 Bit -CT [1.1] DPT_State 92 Air Conditioner Fan 5 Status 1 Bit -CT [1.1] DPT_State 93 Air Conditioner Fan AutoManual Status (1-Auto) 1 Bit						KNX – ECLIPSE THERMOSTAT
82 Air Fan Speed Scaling 1 Byte CT [5.1] DPT_Scaling 83 Air Fan Speed Scaling Status 1 Byte -WCTU- [5.1] DPT_Scaling 84 Air Fan 1 1 Bit CT [1.11] DPT_State 85 Air Conditioner Fan 1 Status 1 Bit CT [1.11] DPT_State 86 Air Fan 2 Status 1 Bit CT [1.11] DPT_State 87 Air Fan 2 Status 1 Bit CT [1.11] DPT_State 88 Air Conditioner Fan 3 Status 1 Bit CT [1.11] DPT_State 89 Air Fan 4 1 Bit CT [1.11] DPT_State 90 Air Fan 4 1 Bit CT [1.11] DPT_State 91 Air Fan 5 1 Bit CT [1.11] DPT_State 92 Air Fan 5 1 Bit CT [1.11] DPT_State 93 Air Fan 5 1 Bit CT [1.13] DPT_Enable 94 Air Conditioner Fan 4uo/M	81		Fan Speed Enumerated Status	1 Byte	-WCTU-	[5.100] DPT_FanStage
83 Air Fan Speed Scaling Status 1 Byte -WCTU- [5,1] DPT_Scaling 84 Air Conditioner Fan 1 1 Bit CT [1.11] DPT_State 85 Air Conditioner Fan 1 Status 1 Bit CT [1.11] DPT_State 86 Air Conditioner Fan 2 Status 1 Bit CT [1.11] DPT_State 86 Air Conditioner Fan 3 Status 1 Bit CT [1.11] DPT_State 87 Air Fan 3 Status 1 Bit CT [1.11] DPT_State 88 Air Fan 3 Status 1 Bit CT [1.11] DPT_State 90 Air Fan 4 Status 1 Bit CT [1.11] DPT_State 91 Air Fan 5 1 Bit CT [1.11] DPT_State 92 Air Fan 5 Status 1 Bit CT [1.13] DPT_Enable 93 Air Gonditioner Fan Auto/Manual Status (1-Auto) 1 Bit CT [1.3] DPT_Enable <td>82</td> <td>Air</td> <td>Fan Speed Scaling</td> <td>1 Byte</td> <td>CT</td> <td>[5.1] DPT_Scaling</td>	82	Air	Fan Speed Scaling	1 Byte	CT	[5.1] DPT_Scaling
84 Air Fan 1 1 Bit -CT [1.11] DPT_State 85 Air Conditioner Fan 1 Status 1 Bit -WCTU- [1.11] DPT_State 86 Air Conditioner Fan 2 1 Bit -CT [1.11] DPT_State 86 Air Conditioner Fan 2 1 Bit -CT [1.11] DPT_State 87 Air Fan 3 Status 1 Bit -CT [1.11] DPT_State 88 Air Fan 3 Status 1 Bit -CT [1.11] DPT_State 90 Air Fan 4 1 Bit -CT [1.11] DPT_State 91 Air Fan 4 1 Bit -CT [1.11] DPT_State 92 Air Fan 4 Status 1 Bit -CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 93 Air Fan Auto/Manual Status (1-Auto) 1 Bit -WCTU- [1.3] DPT_Enable 94 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte -CT [1.11] DPT_State 94<	83	Air	Fan Speed Scaling Status	1 Byte	-WCTU-	[5.1] DPT_Scaling
85 Air Fan 1 Status 1 Bit -WCTU- [1.11] DPT_State 86 Air Conditioner Fan 2 1 Bit -CT [1.11] DPT_State 87 Air Fan 2 1 Bit -WCTU- [1.11] DPT_State 87 Air Fan 3 Status 1 Bit -WCTU- [1.11] DPT_State 80 Air Fan 3 Status 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 4 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 4 Status 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 5 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 5 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 5 Status 1 Bit -WCTU- [1.11] DPT_State 9 Air Fan 5 Auto/Manual (1-Auto) 1 Bit -WCTU- [1.3] DPT_Enable 9 Air Fan 5 Status 1 Bit -WCTU- [1.3] DPT_Enable 9 Air Vanes Up-Down Status (0-Swing Off, 1-	84	Air	Fan 1	1 Bit	CT	[1.11] DPT_State
86 Air Fan 2 1 Bit -CT [1.11] DPT_State 87 Air Conditioner Fan 3 Status 1 Bit -WCTU- [1.11] DPT_State 88 Air Fan 3 Status 1 Bit -CT [1.11] DPT_State 89 Air Fan 3 Status 1 Bit -CT [1.11] DPT_State 90 Air Fan 4 Status 1 Bit -CT [1.11] DPT_State 91 Air Fan 4 Status 1 Bit -CT [1.11] DPT_State 91 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 92 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit -CT [1.3] DPT_Enable 94 Air Fan 4 Auto/Manual Status (1-Auto) 1 Bit -CT [1.3] DPT_Enable 95 Air Fan 4 Auto/Manual Status (0-Swing Off, 1- 1 Byte -CT [1.11] DPT_State 96 Air Vanes Up-Down Status (0-Swing Off, 1- 1 Byte -CT [1.11] DPT_State 97 Var	85	Air	Fan 1 Status	1 Bit	-WCTU-	[1.11] DPT_State
87 Air Fan 2 Status 1 Bit -WCTU- [1.11] DPT_State 88 Air Fan 3 Status 1 Bit -CT [1.11] DPT_State 90 Air Fan 4 1 Bit -CT [1.11] DPT_State 91 Air Fan 4 1 Bit -CT [1.11] DPT_State 92 Air Fan 5 1 Bit -CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 94 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 94 Air Fan 5 Status 1 Bit -CT [1.3] DPT_Enable 95 Air Fan 4uto/Manual (1-Auto) 1 Bit -CT [1.3] DPT_Enable 95 Air Conditioner Fan 4uto/Manual Status (1-Auto) 1 Bit -CT [1.3] DPT_Enable 96 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte -CT [1.11] DPT_State 97 Air Swing Up/Down Status 1 Bit -CT [1.11] DPT_State 98 Air Sw	86	Air	Fan 2	1 Bit	CT	[1.11] DPT_State
88 Air Fan 3 1 Bit CT [1.11] DPT_State 89 Air Fan 3 Status 1 Bit -WCTU- [1.11] DPT_State 80 Air Fan 4 1 Bit -CT [1.11] DPT_State 91 Air Fan 4 Status 1 Bit -CT [1.11] DPT_State 92 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit -CT [1.11] DPT_State 94 Air Fan 5 Status 1 Bit -CT [1.3] DPT_Enable 94 Air Fan Auto/Manual (1-Auto) 1 Bit -CT [1.3] DPT_Enable 95 Air Fan Auto/Manual Status (1-Auto) 1 Bit -CT [1.3] DPT_Enable 96 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte -CT [1.11] DPT_State 97 Air Swing Up/Down 1 Bit -CT [1.11] DPT_State 98 Air Swing Up/Down Status 1 Bit -CT [1.11] DPT_State 99 Air Swing Up/Down Status <td< td=""><td>87</td><td>Air</td><td>Fan 2 Status</td><td>1 Bit</td><td>-WCTU-</td><td>[1.11] DPT_State</td></td<>	87	Air	Fan 2 Status	1 Bit	-WCTU-	[1.11] DPT_State
89 Air Conditioner Fan 3 Status 1 Bit Fan 4 -WCTU- (1.11) DPT_State 90 Air Conditioner Fan 4 Status 1 Bit Conditioner CT Fan 5 [1.11] DPT_State 91 Air Conditioner Fan 4 Status 1 Bit Conditioner WCTU- Fan 5 [1.11] DPT_State 92 Air Conditioner Fan 5 Status 1 Bit Conditioner WCTU- Fan Auto/Manual (1-Auto) 1 Bit Fan Auto/Manual Status (1-Auto) 1 Bit Fan Status CT- Fan Fan Fan Auto/Manual Status (1-Auto) 1 Bit Fan Status CT- Fan Fan Fan Fan Fan Fan Fan Fan Fan Fan	88	Air	Fan 3	1 Bit	CT	[1.11] DPT_State
90 Air Fan 4 1 Bit CT [1.11] DPT_State 91 Air Fan 4 Status 1 Bit -WCTU- [1.11] DPT_State 92 Air Fan 5 1 Bit CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit -WCTU- [1.11] DPT_State 93 Air Fan Auto/Manual (1-Auto) 1 Bit -WCTU- [1.3] DPT_Enable 94 Air Fan Auto/Manual Status (1-Auto) 1 Bit -WCTU- [1.3] DPT_Enable 95 Air Fan Auto/Manual Status (1-Auto) 1 Bit -WCTU- [1.3] DPT_Enable 96 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte CT [1.3] DPT_Enable 97 Air Vanes Up-Down Status (0-Swing Off, 1 1 Byte CT [1.11] DPT_State 98 Air Swing Up/Down 1 Bit CT [1.11] DPT_State 99 Air Vanes Left-Right (0-Swing Off, 1- 1 Byte CT [1.11] DPT_State 91 Air Swing Up/Down Status 1 Bit -WCTU- [1.11] DPT_State	89	Air	Fan 3 Status	1 Bit	-WCTU-	[1.11] DPT_State
91 Air Fan 4 Status 1 Bit -WCTU- [1.11] DPT_State 92 Air Fan 5 1 Bit CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit WCTU- [1.11] DPT_State 94 Air Fan Auto/Manual (1-Auto) 1 Bit CT [1.3] DPT_Enable 94 Air Fan Auto/Manual Status (1-Auto) 1 Bit CT [1.3] DPT_Enable 95 Air Conditioner Fan Auto/Manual Status (1-Auto) 1 Bit CT [1.3] DPT_Enable 96 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte CT CT 97 Air Vanes Up-Down Status (0-Swing Off, 1 1 Byte CT [1.11] DPT_State 98 Air Swing Up/Down Status 1 Bit CT [1.11] DPT_State 99 Air Vanes Left-Right (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte CT 91 Air Vanes Left-Right Status (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte CT 91 Air Swing Left/Right Status (0-Swing Off, 1- Pos5, 6-S	90	Air	Fan 4	1 Bit	CT	[1.11] DPT_State
92 Air Fan 5 1 Bit CT [1.11] DPT_State 93 Air Fan 5 Status 1 Bit CT [1.1] DPT_State 94 Air Fan Auto/Manual (1-Auto) 1 Bit CT [1.3] DPT_Enable 94 Air Fan Auto/Manual Status (1-Auto) 1 Bit CT [1.3] DPT_Enable 95 Air Conditioner Fan Auto/Manual Status (1-Auto) 1 Bit CT [1.3] DPT_Enable 96 Air Vanes Up-Down (0-Swing Off, 1- 1 Byte CT Post, 5-Swing On 97 Air Vanes Up-Down Status (0-Swing Off, 1- 1 Byte -WCTU- [1.11] DPT_State Conditioner I-Post, 2-Pos2, 3-Pos3, 4-Pos4, 5- Post, 6-Swing On) 1 Bit CT [1.11] DPT_State 99 Air Swing Up/Down 1 Bit CT [1.11] DPT_State 100 Air Vanes Left-Right (0-Swing Off, 1- 1 Byte CT [1.11] DPT_State 101 Air Vanes Left-Right Status (0-Swing Off, 1- 1 Byte CT [1.11] DPT_State 102 Air Swing Left/Righ	91	Air	Fan 4 Status	1 Bit	-WCTU-	[1.11] DPT_State
93 Air Conditioner Fan 5 Status 1 Bit Conditioner -WCTU- [1.3] DPT_Enable 94 Air Conditioner Fan Auto/Manual (1-Auto) 1 Bit Conditioner CT Pash [1.3] DPT_Enable 95 Air Conditioner Vanes Up-Down (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte Pos5, 6-Swing On) CT Pos5, 6-Swing On) CT Pos5, 6-Swing On) 97 Air Conditioner Varies Up-Down Status (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte Pos5, 6-Swing On) CT [1.11] DPT_State 98 Air Conditioner Swing Up/Down 1 Bit Conditioner CT [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit Conditioner CT [1.11] DPT_State 100 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte Pos5, 6-Swing On) CT 101 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte Pos5, 6-Swing On) CT 102 Air Conditioner Efter Right Status 1 Bit Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) I Bit CT 103 Air Conditioner Swing Left/Right Status 1 Bit CT [1.11] DPT_State	92	Air	Fan 5	1 Bit	CT	[1.11] DPT_State
94 Air Conditioner Fan Auto/Manual (1-Auto) 1 Bit Conditioner CT [1.3] DPT_Enable 95 Air Conditioner Fan Auto/Manual Status (1-Auto) 1 Bit WCTU- [1.3] DPT_Enable 96 Air Conditioner Vanes Up-Down (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT CT 97 Air Vanes Up-Down Status (0-Swing Off, Conditioner 1 Bit CT [1.11] DPT_State 98 Air Swing Up/Down 1 Bit CT [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit WCTU- [1.11] DPT_State 99 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Bit WCTU- [1.11] DPT_State 100 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1- Pos5, 6-Swing On) 1 Bit WCTU- [1.11] DPT_State 101 Air Conditioner Swing Left/Right Status 1 Bit -WCTU- [1.11] DPT_State 102 Air Conditioner Swing Left/Right Status 1 Bit -WCTU- [1.11] DPT_State 103 Air Conditioner </td <td>93</td> <td>Air</td> <td>Fan 5 Status</td> <td>1 Bit</td> <td>-WCTU-</td> <td>[1.11] DPT_State</td>	93	Air	Fan 5 Status	1 Bit	-WCTU-	[1.11] DPT_State
95 Air Conditioner Fan Auto/Manual Status (1-Auto) 1 Bit I Bit -WCTU- [1.3] DPT_Enable 96 Air Conditioner Vanes Up-Down (0-Swing Off, 1- Post, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT 97 Air Conditioner Vanes Up-Down Status (0-Swing Off, 1-Post, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte WCTU- 98 Air Conditioner Swing Up/Down 1 Bit WCTU- [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit WCTU- [1.11] DPT_State 100 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT 101 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte -WCTU- 102 Air Conditioner Swing Left/Right Status 1 Bit -WCTU- [1.11] DPT_State 103 Air Conditioner Swing Left/Right Status 1 Bit -WCTU- [1.1] DPT_Switch 104 Air Conditioner Error 1 Bit (1-Error, 0-No Error) 1 Bit -WCTU- [1.1] DPT_Switch 105 Button 1 Switch	94	Air	Fan Auto/Manual (1-Auto)	1 Bit	CT	[1.3] DPT_Enable
96 Air Conditioner Vanes Up-Down (0-Swing Off, 1- Post, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT 97 Air Conditioner Vanes Up-Down Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte -WCTU- 98 Air Conditioner Swing Up/Down 1 Bit CT [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit -WCTU- [1.11] DPT_State 100 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT 101 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte WCTU- 102 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1- Pos5, 6-Swing On) 1 Bit WCTU- 103 Air Conditioner Swing Left/Right Status 1 Bit WCTU- [1.11] DPT_State 104 Air Conditioner Error 1 Bit (1-Error, 0-No Error) 1 Bit -WCTU- [1.1] DPT_Switch 105 Button 1 Switch Status 1 Bit -WCTU- [1.1] DPT_Switch 106 Button 1 Switch On/Off 1 Bit R-CT	95	Air	Fan Auto/Manual Status (1-Auto)	1 Bit	-WCTU-	[1.3] DPT_Enable
97 Air Conditioner Vanes Up-Down Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte -WCTU- 98 Air Conditioner Swing Up/Down 1 Bit CT [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit WCTU- [1.11] DPT_State 100 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos5, 6-Swing On) 1 Byte CT [1.11] DPT_State 101 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte WCTU- 102 Air Conditioner Vanes Left/Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Bit WCTU- 102 Air Conditioner Swing Left/Right Status 1 Bit WCTU- [1.11] DPT_State 103 Air Conditioner Swing Left/Right Status 1 Bit WCTU- [1.11] DPT_Switch 104 Air Conditioner Error 1 Bit (1-Error, 0-No Error) 1 Bit -WCTU- [1.1] DPT_Switch 105 Button 1 Switch Status 1 Bit -WCTU- [1.1] DPT_Switch 105 Button 1 Switch On/Off <	96	Air	Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-	1 Byte	CT	
98 Air Conditioner Swing Up/Down 1 Bit Swing Up/Down Status 1 Bit CT [1.11] DPT_State 99 Air Conditioner Swing Up/Down Status 1 Bit -WCTU- [1.11] DPT_State 100 Air Conditioner Vanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte CT 101 Air Conditioner Vanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Byte -WCTU- 102 Air Conditioner Swing Left/Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On) 1 Bit WCTU- 102 Air Conditioner Swing Left/Right Status 1 Bit WCTU- [1.11] DPT_State 103 Air Conditioner Swing Left/Right Status 1 Bit WCTU- [1.11] DPT_State 104 Air Conditioner Error 1 Bit (1-Error, 0-No Error) 1 Bit -WCTU- [1.1] DPT_Switch 105 Button 1 Switch Status 1 Bit -WCTU- [1.1] DPT_Switch 106 Button 1 Switch On/Off 1 Bit -WCTU- [1.1] DPT_Switch 108 Button 1 Long Switch Status 1	97		Vanes Up-Down Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-	1 Byte	-WCTU-	
99Air ConditionerSwing Up/Down Status1 Bit-WCTU-[1.11] DPT_State100Air ConditionerVanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On)1 ByteCTCT101Air ConditionerVanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On)1 ByteWCTU-102Air ConditionerSwing Left/Right1 BitCT[1.11] DPT_State102Air ConditionerSwing Left/Right1 BitWCTU-[1.11] DPT_State103Air ConditionerSwing Left/Right Status1 BitWCTU-[1.11] DPT_State104Air ConditionerError 1 Bit (1-Error, 0-No Error)1 Bit-WCTU-[1.5] DPT_Alarm105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch108Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch109Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch110Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1Long Switch On	98			1 Bit	CT	[1.11] DPT_State
100Air ConditionerVanes Left-Right (0-Swing Off, 1- Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On)1 ByteCT101Air ConditionerVanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On)1 Byte-WCTU-102Air ConditionerSwing Left/Right1 BitCT[1.11] DPT_State102Air ConditionerSwing Left/Right1 BitCT[1.11] DPT_State103Air ConditionerSwing Left/Right Status1 Bit-WCTU-[1.11] DPT_State104Air ConditionerError 1 Bit (1-Error, 0-No Error) Conditioner1 Bit-WCTU-[1.1] DPT_Switch105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch109Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch110Button 1Long Switch On/Off	99	Air	Swing Up/Down Status	1 Bit	-WCTU-	[1.11] DPT_State
101Air ConditionerVanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5- Pos5, 6-Swing On)1 Byte-WCTU-102Air ConditionerSwing Left/Right1 BitCT[1.11] DPT_State103Air ConditionerSwing Left/Right Status1 Bit-WCTU-[1.11] DPT_State104Air ConditionerError 1 Bit (1-Error, 0-No Error)1 Bit-WCTU-[1.5] DPT_Alarm105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch112Button 1Long Switch On/Off1 BitRWCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	100	Air	Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-	1 Byte	CT	
ConditionerConditionerConditionerConditioner103Air ConditionerSwing Left/Right Status1 Bit-WCTU-[1.11] DPT_State104Air ConditionerError 1 Bit (1-Error, 0-No Error)1 Bit-WCTU-[1.5] DPT_Alarm105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1LED1 Bit-WCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	101		Vanes Left-Right Status (0-Swing Off, 1-Pos1, 2-Pos2, 3-Pos3, 4-Pos4, 5-	1 Byte		
103Air ConditionerSwing Left/Right Status1 Bit-WCTU-[1.11] DPT_State104Air ConditionerError 1 Bit (1-Error, 0-No Error)1 Bit-WCTU-[1.5] DPT_Alarm105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	102		Swing Left/Right	1 Bit	CT	[1.11] DPT_State
104Air ConditionerError 1 Bit (1-Error, 0-No Error)1 Bit-WCTU-[1.5] DPT_Alarm105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 Bit-WCTU-[1.1] DPT_Switch111Button 1Jamming1 BitR-CT[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	103	Air	Swing Left/Right Status	1 Bit	-WCTU-	[1.11] DPT_State
105Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LeD1 BitR-CT[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	104	Air	Error 1 Bit (1-Error, 0-No Error)	1 Bit	-WCTU-	[1.5] DPT_Alarm
106Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LED1 Bit-WCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable	105		Switch Status	1 Bit	-WCTU-	[1.1] DPT_Switch
107Button 1Switch Status1 Bit-WCTU-[1.1] DPT_Switch108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LED1 BitR-CT[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable						
108Button 1Switch On/Off1 BitR-CT[1.1] DPT_Switch109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LED1 Bit-WCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable						
109Button 1Long Switch Status1 Bit-WCTU-[1.1] DPT_Switch110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LED1 Bit-WCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable						
110Button 1Long Switch On/Off1 BitR-CT[1.1] DPT_Switch111Button 1LED1 Bit-WCTU-[1.1] DPT_Switch112Button 1Jamming1 BitRWCTU-[1.3] DPT_Enable						
111 Button 1 LED 1 Bit -WCTU- [1.1] DPT_Switch 112 Button 1 Jamming 1 Bit RWCTU- [1.3] DPT_Enable						
112 Button 1 Jamming 1 Bit RWCTU- [1.3] DPT_Enable www.core.com.tr			5			
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113	Button 1	Up/Down	1 Bit	R-CT	[1.8] DPT_UpDown
114	Button 1	Step/Stop	1 Bit	R-CT	[1.2] DPT_Bool
115	Button 1	Dimming	4 Bit	R-CT	[3.7] DPT_Control_Dimming
116	Button 1	Execute/Store	1 Byte	R-CT	[18.1] DPT_SceneControl
117	Button 1	Value (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
118	Button 1	Value (1 byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
119	Button 1	Value (2 byte)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
120	Button 1	Long Value (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
121	Button 1	Long Value (1 byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
122	Button 1	Long Value (2 byte)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
123	Button 2	Switch Status	1 Bit	-WCTU-	[1.1] DPT_Switch
124	Button 2	Switch On/Off	1 Bit	R-CT	[1.1] DPT_Switch
125	Button 2	Switch Status	1 Bit	-WCTU-	[1.1] DPT_Switch
126	Button 2	Switch On/Off	1 Bit	R-CT	[1.1] DPT_Switch
127	Button 2	Long Switch Status	1 Bit	-WCTU-	[1.1] DPT_Switch
128	Button 2	Long Switch On/Off	1 Bit	R-CT	[1.1] DPT_Switch
129	Button 2	LED	1 Bit	-WCTU-	[1.1] DPT_Switch
130	Button 2	Jamming	1 Bit	RWCTU-	[1.3] DPT_Enable
131	Button 2	Up/Down	1 Bit	R-CT	[1.8] DPT_UpDown
132	Button 2	Step/Stop	1 Bit	R-CT	[1.2] DPT_Bool
133	Button 2	Dimming	4 Bit	R-CT	[3.7] DPT_Control_Dimming
134	Button 2	Execute/Store	1 Byte	R-CT	[18.1] DPT_SceneControl
135	Button 2	Value (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
136	Button 2	Value (1 byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
137	Button 2	Value (2 byte)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
138	Button 2	Long Value (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
139	Button 2	Long Value (1 byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
140	Button 2	Long Value (2 byte)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
141	Scene	Call	1 Byte	-WC	[18.1] DPT_SceneControl
142	Logic 1	Output (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
143	Logic 1	Output (1 Byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
144	Logic 1	Output (2 Bytes)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
145	Logic 1	Input 1	1 Bit	-WCTU-	[1.2] DPT_Bool
146	Logic 1	Input 2	1 Bit	-WCTU-	[1.2] DPT_Bool
147	Logic 1	Input 3	1 Bit	-WCTU-	[1.2] DPT_Bool
148	Logic 1	Input 4	1 Bit	-WCTU-	[1.2] DPT_Bool
149	Logic 2	Output (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
150	Logic 2	Output (1 Byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
151	Logic 2	Output (2 Bytes)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
152	Logic 2	Input 1	1 Bit	-WCTU-	[1.2] DPT_Bool
153	Logic 2	Input 2	1 Bit	-WCTU-	[1.2] DPT_Bool
154	Logic 2	Input 3	1 Bit	-WCTU-	[1.2] DPT_Bool
155	Logic 2	Input 4	1 Bit	-WCTU-	[1.2] DPT_Bool
156	Logic 3	Output (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
157	Logic 3	Output (1 Byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
158	Logic 3	Output (2 Bytes)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
159	Logic 3	Input 1	1 Bit	-WCTU-	[1.2] DPT_Bool
160	Logic 3	Input 2	1 Bit	-WCTU-	[1.2] DPT_Bool
161	Logic 3	Input 3	1 Bit	-WCTU-	[1.2] DPT_Bool
162	Logic 3	Input 4	1 Bit	-WCTU-	[1.2] DPT_Bool
163	Logic 4	Output (1 bit)	1 Bit	R-CT	[1.1] DPT_Switch
164	Logic 4	Output (1 Byte)	1 Byte	R-CT	[5.10] DPT_Value_1_Ucount
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165	Logic 4	Output (2 Bytes)	2 Bytes	R-CT	[7.1] DPT_Value_2_Ucount
166	Logic 4	Input 1	1 Bit	-WCTU-	[1.2] DPT_Bool
167	Logic 4	Input 2	1 Bit	-WCTU-	[1.2] DPT_Bool
168	Logic 4	Input 3	1 Bit	-WCTU-	[1.2] DPT_Bool
169	Logic 4	Input 4	1 Bit	-WCTU-	[1.2] DPT_Bool