

2-pipe temperature control

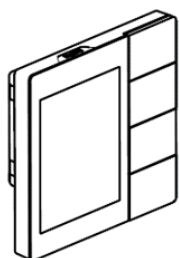
ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

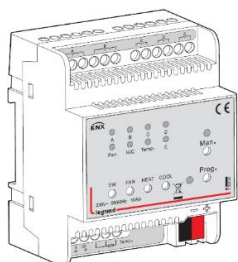
Cat.No(s): 281027BB

0 028 90

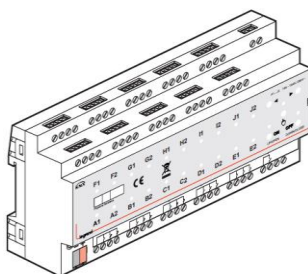
0 026 72



281027BB



0 028 90



0 026 72

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1. USAGE SCENARIO

Hotel/residential room



Office/meeting room



2. DESCRIPTION

The thermostat combined with an HVAC actuator is used to control a fan coil equipped with 2 pipes, ON/OFF valve and 3(ON/OFF) Speed ventilation. The system will regulate the temperature of an office around the set point. An external command can be used to switch from winter to summer mode and vice versa. Set HVAC actuator the mode (comfort, eco, standby and protection).

1. Using the thermostat's touch-sensitive buttons, the user can:

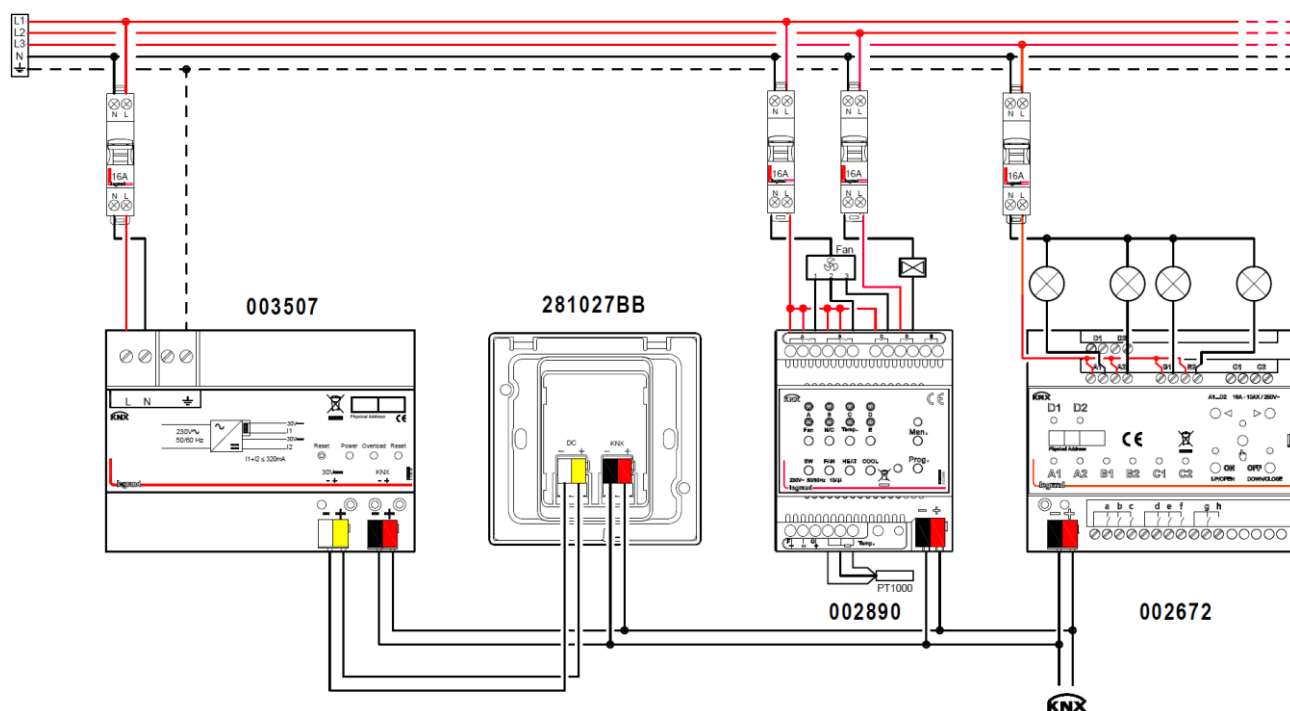
- Change the temperature setpoint.
- Select the mode (comfort, eco, standby and protection).
- Adjust the fan speed.

2.Using the thermostat buttons (4, 6 or 8), the user can also send a scene command to the bus. You can connect the corresponding actuator to execute the required scene.

Here is a table of compatible Malia thermostats.

LG-281027MW	KNX-Mallia Senses command 4 push with thermostat white
LG-281028MW	KNX-Mallia Senses command 6 push with thermostat white
LG-281029MW	KNX-Mallia Senses command 8 push with thermostat white
LG-281027DS	KNX-Mallia Senses command 4 push with thermostat silver
LG-281028DS	KNX-Mallia Senses command 6 push with thermostat silver
LG-281029DS	KNX-Mallia Senses command 8 push with thermostat silver
LG-281027BB	KNX-Mallia Senses command 4 push with thermostat black
LG-281028BB	KNX-Mallia Senses command 6 push with thermostat black
LG-281029BB	KNX-Mallia Senses command 8 push with thermostat black

3. WIRING DIAGRAM



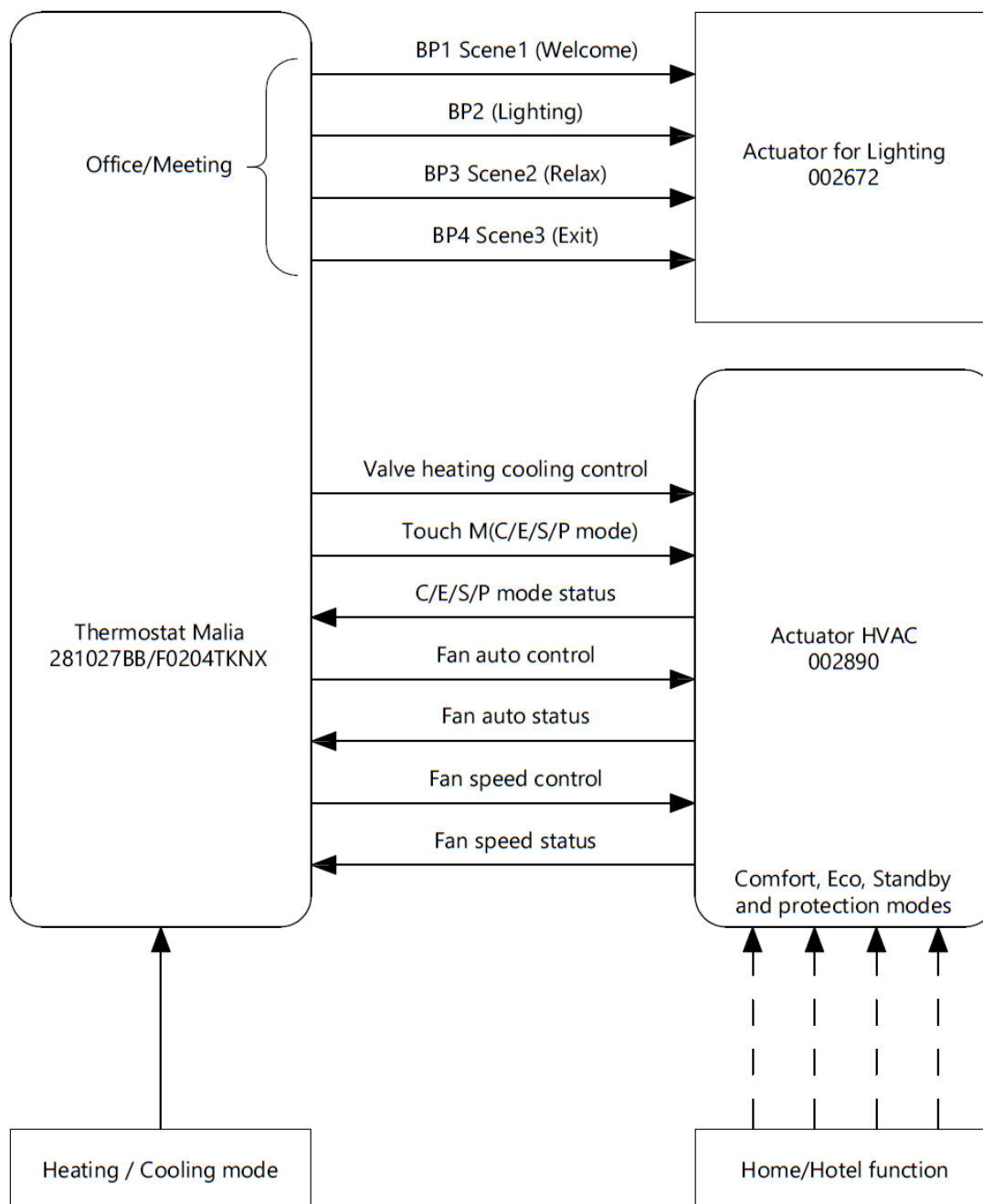
NB:

For more information about wiring each device, refer to the instructions on site.



www.legrand.com

4. KNX DIAGRAM



5. KNX Diagram

This project **002890_Thermoregulation 2P ON-OFF Valves&Fan.knxproj** is available on www.legrand.com and can be imported into ETS5.

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS

6.1 Thermostat 281027BB

Devices ▾

+ Add Channels ▾

✗ Delete

⬇ Download ▾

?

Help

👉 Highlight Changes

Default Parameters

Grant Customer Access

Devices ▾

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > General > General setting

General

General setting

Proximity setting

+ Button

+ Internal sensor

+ HVAC controller

Normal day backlight [10..100]

70

%

Normal night backlight [10..100]

50

%

Normal standby backlight [0..10]

5

%

Normal to standby delay time [1..255]

30

s

Buzzer volume level [0..5, 0=inactive]

5

Touch button vibration feedback

☐

Long operation for touch after

1.0

s

Devices ▾

+ Add Channels ▾

✗ Delete

⬇ Download ▾

?

Help

👉 Highlight Changes

Default Parameters

Grant Customer Access

Devices ▾

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > General > Proximity setting

General

General setting

Proximity setting

+ Button

The Proximity function triggered via

Sensor

Object type of output value

1bit[On/Off]

Output value

☐ OFF ☒ ON

Delay time for sending [0..65535]s

0

Devices ▾

+ Add Channels ▾

✗ Delete

⬇ Download ▾

?

Help

👉 Highlight Changes

Default Parameters

Grant Customer Access

Devices ▾

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > Button setting

+ General

- Button

Button setting

Button 1

Button 2

Button 3

Delay time for no operation [0..255, 0=inactive]

10

s

LED status object read request after restart

☐

Initial LED status

☒ No ☐ As status as object value "0"

Brightness setting

Brightness of cool white LED

50

%

Brightness of warm white LED

50

%

Devices ▾

+ Add Channels ▾

✗ Delete

⬇ Download ▾

?

Help

👉 Highlight Changes

Default Parameters

Grant Customer Access

Devices ▾

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > Button 1

+ General

- Button

Button setting

Button 1

Button 2

Button 3

Function of button

Scene control

Distinction between short and long operation

☒ No ☐ Yes

Reaction on short operation or closing the contact

Recall scene

8 bit scene number

Scene NO.1

Reaction on long operation or opening the contact

No reaction

Disable function

☒ Disable ☐ Enable

2-pipe temperature control
ON/OFF valves, 2 manual hot/cold change-over pipes
3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB
0 028 90
0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.1 Thermostat 281027BB (continued)

Devices

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > Button 2

+

General

-

Button

Button setting

Button 1

Button 2

Button 3

Function of button

Distinction between short and long operation

Reaction on short operation or closing the contact

8 bit scene number

Reaction on long operation or opening the contact

Disable function

Scene control

No

Yes

Recall scene

Scene NO.2

No reaction

No

Disable

Enable

Devices

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > Button 3

+

General

-

Button

Button setting

Button 1

Button 2

Button 3

Function of button

Distinction between short and long operation

Reaction on short operation or closing the contact

8 bit scene number

Reaction on long operation or opening the contact

Disable function

Scene control

No

Yes

Recall scene

Scene NO.3

No reaction

No

Disable

Enable

Devices

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > Button 4

+

General

-

Button

Button setting

Button 1

Button 2

Button 3

Button 4

Function of button

Distinction between short and long operation

Reaction on short operation or closing the contact

8 bit scene number

Reaction on long operation or opening the contact

Disable function

Scene control

No

Yes

Recall scene

Scene NO.4

No reaction

No

Disable

Enable

2-pipe temperature control
ON/OFF valves, 2 manual hot/cold change-over pipes
3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB
0 028 90
0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.1 Thermostat 281027BB (continued)

Devices

+ Add Channels

✖ Delete

📄 Download

🔍 Help

🔑 Highlight Changes

Default Parameters

Grant Customer Access

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

+ General

- Button

Button setting

Button 1

Button 2

Button 3

Button 4

LED function

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Button > LED function

LED 1 function

LED 2 function

LED 3 function

LED 4 function

Disable

Control by external object

Disable

Control by external object

Disable

Control by external object

Disable

Control by external object

Devices

+ Add Channels

✖ Delete

📄 Download

🔍 Help

🔑 Highlight Changes

Default Parameters

Grant Customer Access

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

+ General

+ Button

- Internal sensor

Measurement setting

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > Internal sensor > Measurement setting

Temperature sensor setting

Temperature calibration

Send temperature when the result change by [0..10]

Cyclically send temperature [0..255,0=inactive]

0.0 °C

0.5 °C

1 min

Devices

+ Add Channels

✖ Delete

📄 Download

🔍 Help

🔑 Highlight Changes

Default Parameters

Grant Customer Access

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

+ General

+ Button

+ Internal sensor

- HVAC controller

Controller setting

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > HVAC controller > Controller setting

Room temperature control function as

Ventilation function

Floor heating function

FCU control

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.1 Thermostat 281027BB (continued)

Devices	
Dynamic Folders	1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > HVAC controller > FCU setting
1.1.1 KNX-Mallia Senses command 4 push with thermostat...	
General	General
Button	General setting
Internal sensor	Proximity setting
HVAC controller	+
1.1.2 KNX 0-10V Fan coil Actuator	Button
1.1.3 LG-002672 Room Control Unit, 8 Output	Internal sensor
	- HVAC controller
	Controller setting
	+ FCU setting
	Work mode <input checked="" type="radio"/> Master <input type="radio"/> Slave
	Room temperature reference from <input checked="" type="radio"/> Internal sensor <input type="radio"/> External sensor
	Control value after temp. error [0..100] (if 2-point control, set value '0'=0, set value '>0'=1) <input type="text" value="0"/> %
	Interface display temperature <input type="radio"/> Setpoint temperature <input checked="" type="radio"/> Actual temperature
	Setpoint temperature adjustment step <input checked="" type="radio"/> 0.5K <input type="radio"/> 1K
	Min. setpoint temperature [5..37] <input type="text" value="16"/> °C
	Max. setpoint temperature [5..37] <input type="text" value="32"/> °C
	Power on/off status after download <input checked="" type="radio"/> OFF <input type="radio"/> ON
	Power on/off status after voltage recovery <input type="text" value="As before voltage failure"/>
	Low temperature protection when power off <input type="checkbox"/>
	Room temperature control mode <input type="text" value="Heating and Cooling"/>
	Heating/Cooling switchover <input checked="" type="radio"/> Only via object <input type="radio"/> Automatic changeover
	Heating/Cooling status after download <input type="radio"/> Heating <input checked="" type="radio"/> Cooling
	Heating/Cooling status after voltage recovery <input type="text" value="As before voltage failure"/>
	Room temperature control system <input checked="" type="radio"/> 2 pipes system <input type="radio"/> 4 pipes system
	Room temperature operation mode <input checked="" type="checkbox"/>
	Controller status after download <input type="text" value="Standby mode"/>
	Controller status after voltage recovery <input type="text" value="As before voltage failure"/>
	Extended comfort mode [0..255,0=inactive] <input type="text" value="0"/> min
	Window contact input function <input type="checkbox"/>
	Bus presence detector function <input type="checkbox"/>
	Fan <input checked="" type="checkbox"/>
	Timer <input type="checkbox"/>
	Scene <input type="checkbox"/>

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

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6. DEVICE PARAMETERS WITH ETSS (continued)

6.1 Thermostat 281027BB (continued)

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > HVAC controller > FCU setting > Setpoint

General

Button

Internal sensor

HVAC controller

Controller setting

FCU setting

Setpoint

Heating/Cooling control

Fan

Setpoint method for operating mode

Relative

Absolute

Heating

Setpoint temperature in comfort mode [5..37]

21

°C

Setpoint temperature in standby mode [5..37]

19

°C

Setpoint temperature in economy mode [5..37]

17

°C

Setpoint temperature in frost protection [5..10]

7

°C

Cooling

Setpoint temperature in comfort mode [5..37]

23

°C

Setpoint temperature in standby mode [5..37]

25

°C

Setpoint temperature in economy mode [5..37]

27

°C

Setpoint temperature in heat protection [30..37]

35

°C

Note: The heating setpoint must be always less than the cooling setpoint.

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > HVAC controller > FCU setting > Heating/Cooling control

General

Button

Internal sensor

HVAC controller

Controller setting

FCU setting

Setpoint

Heating/Cooling control

Fan

Type of heating/cooling control

Switching on/off(use 2-point control)

Invert control value

Heating

Lower Hysteresis [0..200]

10

*0.1K

Upper Hysteresis [0..200]

10

*0.1K

Cooling

Lower Hysteresis [0..200]

10

*0.1K

Upper Hysteresis [0..200]

10

*0.1K

Cyclically send control value[0..255]

0

min

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.1 KNX-Mallia Senses command 4 push with thermostat brushed black > HVAC controller > FCU setting > Fan

General

Button

Internal sensor

HVAC controller

Controller setting

FCU setting

Setpoint

Heating/Cooling control

Fan

Object datatype of 1byte fan speed

Percentage (DPT_5.001)

Fan stage (DPT_5.100)

Output value for Fan speed

Output value for Fan speed low

1

Output value for Fan speed medium

2

Output value for Fan speed high

3

Status feedback for Fan speed

Status value for Fan speed low

1

Status value for Fan speed medium

2

Status value for Fan speed high

3

Automatic operation function

External controller

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

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6. DEVICE PARAMETERS WITH ETSS (continued)

6.2 Actuator HVAC 0 028 90

Devices ▾	
Devices ▾	1.1.2 KNX 0-10V Fan coil Actuator > General
Dynamic Folders	General
1.1.1 KNX-Mallia Senses command 4 push with...	Relay operation delay after power voltage recovery[5...250s]
1.1.2 KNX 0-10V Fan coil Actuator	Sending cycle of "In operation"telegram (1...240s,0=inactive)
1.1.3 LG-002672 Room Control Unit, 8 Output	Manual operation
	Manual to automatic by
	Delay time*1s[10...6000]
	Report operation status function for HVAC
	Central control for switch function
	Interface Setting
	HVAC-General
	Temperature
	Heating/Cooling valve (0-10V)
	Fan
	Auto.operation

Devices ▾	
Devices ▾	1.1.2 KNX 0-10V Fan coil Actuator > Interface Setting
Dynamic Folders	General
1.1.1 KNX-Mallia Senses command 4 push with...	Fan drive interface
1.1.2 KNX 0-10V Fan coil Actuator	HVAC Control mode
1.1.3 LG-002672 Room Control Unit, 8 Output	HVAC System
	Heating/Cooling valve drive interface
	Interface Setting
	HVAC-General

Devices ▾	
Devices ▾	1.1.2 KNX 0-10V Fan coil Actuator > HVAC-General
Dynamic Folders	General
1.1.1 KNX-Mallia Senses command 4 push with...	Interface Setting
1.1.2 KNX 0-10V Fan coil Actuator	HVAC-General
1.1.3 LG-002672 Room Control Unit, 8 Output	
	Controller define
	Control value object type
	Monitoring control value

Devices ▾	
Devices ▾	1.1.2 KNX 0-10V Fan coil Actuator > Temperature
Dynamic Folders	General
1.1.1 KNX-Mallia Senses command 4 push with...	Interface Setting
1.1.2 KNX 0-10V Fan coil Actuator	HVAC-General
1.1.3 LG-002672 Room Control Unit, 8 Output	Temperature
	Temperature measure by
	Time period for requesting external sensor[0..255]*min

0 026 72

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

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6. DEVICE PARAMETERS WITH ETSS (continued)

6.2 Actuator HVAC 0 028 90 (continued)

Devices ▾																												
<div>Devices</div> <div>Dynamic Folders</div> <div>1.1.1 KNX-Mallia Senses command 4 push with...</div> <div>1.1.2 KNX 0-10V Fan coil Actuator</div> <div>1.1.3 LG-002672 Room Control Unit, 8 Output</div>	<div>1.1.2 KNX 0-10V Fan coil Actuator > Auto.operation</div> <table><tbody><tr><td>General</td><td>Auto.operation on object value</td><td><input type="radio"/> 0=Auto/1=Cancel <input checked="" type="radio"/> 1=Auto/0=Cancel</td></tr><tr><td>Interface Setting</td><td>State of Auto.operation after startup</td><td><input type="radio"/> Disable auto.operation <input checked="" type="radio"/> Enable auto.operation</td></tr><tr><td>HVAC-General</td><td>Automatically enable auto.operation</td><td><input checked="" type="radio"/> No <input type="radio"/> Yes</td></tr><tr><td>Temperature</td><td>Threshold value OFF<-->speed 1[1..255] (For 2 point,it's Tem.difference*0.1°C)</td><td>10</td></tr><tr><td>Heating/Cooling valve (0-10V)</td><td>Threshold value speed 1<-->speed 2 [1..255](For 2 point,it's Tem.difference*0.1°C)</td><td>20</td></tr><tr><td>Fan</td><td>Threshold value speed 2<-->speed 3 [1..255](For 2 point,it's Tem.difference*0.1°C)</td><td>30</td></tr><tr><td>Auto.operation</td><td>Hysteresis value is threshold value in +/- [0..50](For 2 point,it is unused)</td><td>10</td></tr><tr><td>Fan status</td><td>Minimum time in fan speed[0..65535]*s</td><td>10</td></tr><tr><td>Scene</td><td>Limitation function</td><td><input checked="" type="radio"/> Disable <input type="radio"/> Enable</td></tr></tbody></table>	General	Auto.operation on object value	<input type="radio"/> 0=Auto/1=Cancel <input checked="" type="radio"/> 1=Auto/0=Cancel	Interface Setting	State of Auto.operation after startup	<input type="radio"/> Disable auto.operation <input checked="" type="radio"/> Enable auto.operation	HVAC-General	Automatically enable auto.operation	<input checked="" type="radio"/> No <input type="radio"/> Yes	Temperature	Threshold value OFF<-->speed 1[1..255] (For 2 point,it's Tem.difference*0.1°C)	10	Heating/Cooling valve (0-10V)	Threshold value speed 1<-->speed 2 [1..255](For 2 point,it's Tem.difference*0.1°C)	20	Fan	Threshold value speed 2<-->speed 3 [1..255](For 2 point,it's Tem.difference*0.1°C)	30	Auto.operation	Hysteresis value is threshold value in +/- [0..50](For 2 point,it is unused)	10	Fan status	Minimum time in fan speed[0..65535]*s	10	Scene	Limitation function	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
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Devices ▾																									
<div>Devices</div> <div>Dynamic Folders</div> <div>1.1.1 KNX-Mallia Senses command 4 push with...</div> <div>1.1.2 KNX 0-10V Fan coil Actuator</div> <div>1.1.3 LG-002672 Room Control Unit, 8 Output</div>	<div>1.1.2 KNX 0-10V Fan coil Actuator > Fan status</div> <table><tbody><tr><td>General</td><td>Reply mode of Obj. "status ON/OFF mode" 1bit function</td><td>Respond after change</td></tr><tr><td>Interface Setting</td><td>Reply mode of Obj. "status Auto. mode" 1bit function</td><td>Respond after change</td></tr><tr><td>HVAC-General</td><td>Reply mode of Obj. "Status fan speed x" 1bit function</td><td>Respond after change</td></tr><tr><td>Temperature</td><td>Reply mode of Obj. "Status fan speed" 1byte function</td><td>Respond after change</td></tr><tr><td>Heating/Cooling valve (0-10V)</td><td>Object value for Status Fan speed 1 [1..255]</td><td>1</td></tr><tr><td>Fan</td><td>Object value for Status Fan speed 2 [1..255]</td><td>2</td></tr><tr><td>Auto.operation</td><td>Object value for Status Fan speed 3 [1..255]</td><td>3</td></tr><tr><td>Fan status</td><td></td><td></td></tr></tbody></table>	General	Reply mode of Obj. "status ON/OFF mode" 1bit function	Respond after change	Interface Setting	Reply mode of Obj. "status Auto. mode" 1bit function	Respond after change	HVAC-General	Reply mode of Obj. "Status fan speed x" 1bit function	Respond after change	Temperature	Reply mode of Obj. "Status fan speed" 1byte function	Respond after change	Heating/Cooling valve (0-10V)	Object value for Status Fan speed 1 [1..255]	1	Fan	Object value for Status Fan speed 2 [1..255]	2	Auto.operation	Object value for Status Fan speed 3 [1..255]	3	Fan status		
General	Reply mode of Obj. "status ON/OFF mode" 1bit function	Respond after change																							
Interface Setting	Reply mode of Obj. "status Auto. mode" 1bit function	Respond after change																							
HVAC-General	Reply mode of Obj. "Status fan speed x" 1bit function	Respond after change																							
Temperature	Reply mode of Obj. "Status fan speed" 1byte function	Respond after change																							
Heating/Cooling valve (0-10V)	Object value for Status Fan speed 1 [1..255]	1																							
Fan	Object value for Status Fan speed 2 [1..255]	2																							
Auto.operation	Object value for Status Fan speed 3 [1..255]	3																							
Fan status																									

Devices ▾																												
<div>Devices</div> <div>Dynamic Folders</div> <div>1.1.1 KNX-Mallia Senses command 4 push with...</div> <div>1.1.2 KNX 0-10V Fan coil Actuator</div> <div>1.1.3 LG-002672 Room Control Unit, 8 Output</div>	<div>1.1.2 KNX 0-10V Fan coil Actuator > Scene</div> <table><tbody><tr><td>General</td><td>Scene function</td><td><input checked="" type="radio"/> Disable <input type="radio"/> Enable</td></tr><tr><td>Interface Setting</td><td></td><td></td></tr><tr><td>HVAC-General</td><td></td><td></td></tr><tr><td>Temperature</td><td></td><td></td></tr><tr><td>Heating/Cooling valve (0-10V)</td><td></td><td></td></tr><tr><td>Fan</td><td></td><td></td></tr><tr><td>Auto.operation</td><td></td><td></td></tr><tr><td>Fan status</td><td></td><td></td></tr><tr><td>Scene</td><td></td><td></td></tr></tbody></table>	General	Scene function	<input checked="" type="radio"/> Disable <input type="radio"/> Enable	Interface Setting			HVAC-General			Temperature			Heating/Cooling valve (0-10V)			Fan			Auto.operation			Fan status			Scene		
General	Scene function	<input checked="" type="radio"/> Disable <input type="radio"/> Enable																										
Interface Setting																												
HVAC-General																												
Temperature																												
Heating/Cooling valve (0-10V)																												
Fan																												
Auto.operation																												
Fan status																												
Scene																												

2-pipe temperature control
ON/OFF valves, 2 manual hot/cold change-over pipes
3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB
0 028 90
0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.2 Actuator HVAC 0 028 90 (continued)

Devices

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push wit...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.2 KNX 0-10V Fan coil Actuator > Output E

General

Interface Setting

HVAC-General

Temperature

Heating/Cooling valve (Relay)

Fan

Auto.operation

Fan status

Scene

Output E

Switch function

☒ Disable ☐ Enable

6. DEVICE PARAMETERS WITH ETSS (continued)

6.2 Actuator HVAC 0 028 90 (continued)

Devices

Devices

Dynamic Folders

1.1.1 KNX-Mallia Senses command 4 push with...

1.1.2 KNX 0-10V Fan coil Actuator

1.1.3 LG-002672 Room Control Unit, 8 Output

1.1.2 KNX 0-10V Fan coil Actuator > Output E

General

Interface Setting

HVAC-General

Temperature

Heating/Cooling valve (0-10V)

Fan

Auto.operation

Fan status

Scene

Output D

Output E

Switch function

☒ Disable ☐ Enable

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72

Devices ▾	
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > General
Dynamic Folders	
1.1.1 KNX-Mallia Senses command 4 push with...	General
1.1.2 KNX 0-10V Fan coil Actuator	Enable manual operation
1.1.3 LG-002672 Room Control Unit, 8 Output	Enable Output A...J
	Reset manual operation to KNX operation
	A1 - General
	A1 - Function
	A1 - Scene
	A2 - General
	A2 - Function
	Enable manual operation
	Reset manual operation to KNX operation
	Device alive operation active
	First telegram send time in s[2...255]
	Telegram limit active
	Activate scene
	Weather alarm function
	Enable manual operation
	Reset manual operation to KNX operation
	Device alive operation active
	First telegram send time in s[2...255]
	Telegram limit active
	Activate scene
	Weather alarm function

Devices ▾	
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > Enable Output A...J
Dynamic Folders	
1.1.1 KNX-Mallia Senses command 4 push with...	General
1.1.2 KNX 0-10V Fan coil Actuator	Enable Output A...J
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - General
	A1 - Function
	Output group A and B
	Output group A
	Output group B
	Output group C and D
	Output group A and B
	Output group A
	Output group B
	Output group C and D

Devices ▾	
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A1 - General
Dynamic Folders	
1.1.1 KNX-Mallia Senses command 4 push with...	General
1.1.2 KNX 0-10V Fan coil Actuator	Enable Output A...J
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - General
	A1 - Function
	A1 - Scene
	A2 - General
	A2 - Function
	Contact type
	Send switch status feedback telegram
	Create status object "Status Switch"
	Send status after bus voltage return
	Behavior after ETS program or after ETS reset
	Behavior bus voltage failure
	Behavior bus voltage return

Devices ▾	
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A1 - Function
Dynamic Folders	
1.1.1 KNX-Mallia Senses command 4 push with...	General
1.1.2 KNX 0-10V Fan coil Actuator	Enable Output A...J
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - General
	A1 - Function
	Enable staircase
	Enable external logic
	Enable priority
	Enable sweep

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72 (continued)

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A1 - Scene	
Dynamic Folders	General	Overwrite scene on download <input checked="" type="radio"/> yes <input type="radio"/> no
1.1.1 KNX-Mallia Senses command 4 push with...	Enable Output A...	
1.1.2 KNX 0-10V Fan coil Actuator	A1 - General	1...64 scene number (0 = no assignment) 1
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - Function	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
	A1 - Scene	1...64 scene number (0 = no assignment) 2
	A2 - General	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	A2 - Function	1...64 scene number (0 = no assignment) 3
	A2 - Scene	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
	B1 - General	1...64 scene number (0 = no assignment) 4
	B1 - Function	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B1 - Scene	1...64 scene number (0 = no assignment) 0
	B2 - General	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B2 - Function	1...64 scene number (0 = no assignment) 0
	B2 - Scene	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A2 - General	
Dynamic Folders	General	Contact type <input type="radio"/> normally closed <input checked="" type="radio"/> normally open
1.1.1 KNX-Mallia Senses command 4 push with...	Enable Output A...	Send switch status feedback telegram after change or request
1.1.2 KNX 0-10V Fan coil Actuator	A1 - General	Create status object "Status Switch" <input checked="" type="radio"/> yes <input type="radio"/> no
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - Function	Send status after bus voltage return <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Scene	Behavior after ETS program or after ETS reset keep position
	A2 - General	Behavior bus voltage failure keep position
	A2 - Function	Behavior bus voltage return state as before bus voltage failure

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A2 - Function	
Dynamic Folders	General	Enable staircase <input type="radio"/> yes <input checked="" type="radio"/> no
1.1.1 KNX-Mallia Senses command 4 push with...	Enable Output A...	Enable external logic <input type="radio"/> yes <input checked="" type="radio"/> no
1.1.2 KNX 0-10V Fan coil Actuator	A1 - General	Enable priority <input type="radio"/> yes <input checked="" type="radio"/> no
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - Function	Enable sweep <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Scene	
	A2 - General	
	A2 - Function	

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72 (continued)

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > A2 - Scene	
Dynamic Folders	General	Overwrite scene on download <input checked="" type="radio"/> yes <input type="radio"/> no
1.1.1 KNX-Mallia Senses command 4 push with...	Enable Output A...	1...64 scene number (0 = no assignment) 1
1.1.2 KNX 0-10V Fan coil Actuator	A1 - General	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - Function	1...64 scene number (0 = no assignment) 2
	A1 - Scene	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	A2 - General	1...64 scene number (0 = no assignment) 3
	A2 - Function	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
	A2 - Scene	1...64 scene number (0 = no assignment) 4
		Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B1 - General	1...64 scene number (0 = no assignment) 0
	B1 - Function	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B1 - Scene	1...64 scene number (0 = no assignment) 0
		Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B2 - General	1...64 scene number (0 = no assignment) 0
	B2 - Function	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B2 - Scene	1...64 scene number (0 = no assignment) 0
		Value <input checked="" type="radio"/> OFF <input type="radio"/> ON

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > B1 - General	
Dynamic Folders	General	Contact type <input type="radio"/> normally closed <input checked="" type="radio"/> normally open
1.1.1 KNX-Mallia Senses command 4 push with...	Enable Output A...	Send switch status feedback telegram after change or request
1.1.2 KNX 0-10V Fan coil Actuator	A1 - General	Create status object "Status Switch" <input checked="" type="radio"/> yes <input type="radio"/> no
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - Function	Send status after bus voltage return <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Scene	Behavior after ETS program or after ETS reset keep position
	A2 - General	Behavior bus voltage failure keep position
	A2 - Function	Behavior bus voltage return state as before bus voltage failure
	A2 - Scene	
	B1 - General	

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72 (continued)

Devices ▾																																														
<div>Devices ▾<ul style="list-style-type: none">Dynamic Folders1.1.1 KNX-Mallia Senses command 4 push with...1.1.2 KNX 0-10V Fan coil Actuator1.1.3 LG-002672 Room Control Unit, 8 Output</div>	<div>1.1.3 LG-002672 Room Control Unit, 8 Output > B1 - Function</div> <table><tbody><tr><td>General</td><td>Enable staircase</td><td><input type="radio"/> yes <input checked="" type="radio"/> no</td></tr><tr><td>Enable Output A...</td><td>Enable external logic</td><td><input type="radio"/> yes <input checked="" type="radio"/> no</td></tr><tr><td>A1 - General</td><td>Enable priority</td><td><input type="radio"/> yes <input checked="" type="radio"/> no</td></tr><tr><td>A1 - Function</td><td>Enable sweep</td><td><input type="radio"/> yes <input checked="" type="radio"/> no</td></tr><tr><td>A1 - Scene</td><td></td><td></td></tr><tr><td>A2 - General</td><td></td><td></td></tr><tr><td>A2 - Function</td><td></td><td></td></tr><tr><td>A2 - Scene</td><td></td><td></td></tr><tr><td>B1 - General</td><td></td><td></td></tr><tr><td>B1 - Function</td><td></td><td></td></tr></tbody></table>	General	Enable staircase	<input type="radio"/> yes <input checked="" type="radio"/> no	Enable Output A...	Enable external logic	<input type="radio"/> yes <input checked="" type="radio"/> no	A1 - General	Enable priority	<input type="radio"/> yes <input checked="" type="radio"/> no	A1 - Function	Enable sweep	<input type="radio"/> yes <input checked="" type="radio"/> no	A1 - Scene			A2 - General			A2 - Function			A2 - Scene			B1 - General			B1 - Function																	
General	Enable staircase	<input type="radio"/> yes <input checked="" type="radio"/> no																																												
Enable Output A...	Enable external logic	<input type="radio"/> yes <input checked="" type="radio"/> no																																												
A1 - General	Enable priority	<input type="radio"/> yes <input checked="" type="radio"/> no																																												
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A1 - Scene																																														
A2 - General																																														
A2 - Function																																														
A2 - Scene																																														
B1 - General																																														
B1 - Function																																														
<div>Devices ▾<ul style="list-style-type: none">Dynamic Folders1.1.1 KNX-Mallia Senses command 4 push with...1.1.2 KNX 0-10V Fan coil Actuator1.1.3 LG-002672 Room Control Unit, 8 Output</div>	<div>1.1.3 LG-002672 Room Control Unit, 8 Output > B1 - Scene</div> <table><tbody><tr><td>General</td><td>Overwrite scene on download</td><td><input checked="" type="radio"/> yes <input type="radio"/> no</td></tr><tr><td>Enable Output A...</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>1 ▾</td></tr><tr><td>A1 - General</td><td>Value</td><td><input checked="" type="radio"/> OFF <input type="radio"/> ON</td></tr><tr><td>A1 - Function</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>2 ▾</td></tr><tr><td>A1 - Scene</td><td>Value</td><td><input type="radio"/> OFF <input checked="" type="radio"/> ON</td></tr><tr><td>A2 - General</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>3 ▾</td></tr><tr><td>A2 - Function</td><td>Value</td><td><input type="radio"/> OFF <input checked="" type="radio"/> ON</td></tr><tr><td>A2 - Scene</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>4 ▾</td></tr><tr><td>B1 - General</td><td>Value</td><td><input checked="" type="radio"/> OFF <input type="radio"/> ON</td></tr><tr><td>B1 - Function</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>0 ▾</td></tr><tr><td>B1 - Scene</td><td>Value</td><td><input checked="" type="radio"/> OFF <input type="radio"/> ON</td></tr><tr><td>B2 - General</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>0 ▾</td></tr><tr><td>B2 - Function</td><td>Value</td><td><input checked="" type="radio"/> OFF <input type="radio"/> ON</td></tr><tr><td>B2 - Scene</td><td>Assignment to scene number (no 1...64, 0 = no assignment)</td><td>0 ▾</td></tr><tr><td></td><td>Value</td><td><input checked="" type="radio"/> OFF <input type="radio"/> ON</td></tr></tbody></table>	General	Overwrite scene on download	<input checked="" type="radio"/> yes <input type="radio"/> no	Enable Output A...	Assignment to scene number (no 1...64, 0 = no assignment)	1 ▾	A1 - General	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON	A1 - Function	Assignment to scene number (no 1...64, 0 = no assignment)	2 ▾	A1 - Scene	Value	<input type="radio"/> OFF <input checked="" type="radio"/> ON	A2 - General	Assignment to scene number (no 1...64, 0 = no assignment)	3 ▾	A2 - Function	Value	<input type="radio"/> OFF <input checked="" type="radio"/> ON	A2 - Scene	Assignment to scene number (no 1...64, 0 = no assignment)	4 ▾	B1 - General	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON	B1 - Function	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾	B1 - Scene	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON	B2 - General	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾	B2 - Function	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON	B2 - Scene	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾		Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON
General	Overwrite scene on download	<input checked="" type="radio"/> yes <input type="radio"/> no																																												
Enable Output A...	Assignment to scene number (no 1...64, 0 = no assignment)	1 ▾																																												
A1 - General	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON																																												
A1 - Function	Assignment to scene number (no 1...64, 0 = no assignment)	2 ▾																																												
A1 - Scene	Value	<input type="radio"/> OFF <input checked="" type="radio"/> ON																																												
A2 - General	Assignment to scene number (no 1...64, 0 = no assignment)	3 ▾																																												
A2 - Function	Value	<input type="radio"/> OFF <input checked="" type="radio"/> ON																																												
A2 - Scene	Assignment to scene number (no 1...64, 0 = no assignment)	4 ▾																																												
B1 - General	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON																																												
B1 - Function	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾																																												
B1 - Scene	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON																																												
B2 - General	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾																																												
B2 - Function	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON																																												
B2 - Scene	Assignment to scene number (no 1...64, 0 = no assignment)	0 ▾																																												
	Value	<input checked="" type="radio"/> OFF <input type="radio"/> ON																																												

2-pipe temperature control
ON/OFF valves, 2 manual hot/cold change-over pipes
3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB
0 028 90
0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72 (continued)

Devices ▾		
<div>Devices</div> <div>Dynamic Folders</div> <div>1.1.1 KNX-Mallia Senses command 4 push with...</div> <div>1.1.2 KNX 0-10V Fan coil Actuator</div> <div>1.1.3 LG-002672 Room Control Unit, 8 Output</div>	1.1.3 LG-002672 Room Control Unit, 8 Output > B2 - General	
	General	Contact type <input type="radio"/> normally closed <input checked="" type="radio"/> normally open
	Enable Output A...	Send switch status feedback telegram <div>after change or request ▾</div>
	A1 - General	Create status object "Status Switch" <input checked="" type="radio"/> yes <input type="radio"/> no
	A1 - Function	Send status after bus voltage return <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Scene	Behavior after ETS program or after ETS reset <div>keep position ▾</div>
	A2 - General	Behavior bus voltage failure <div>keep position ▾</div>
	A2 - Function	Behavior bus voltage return <div>state as before bus voltage failure ▾</div>
	A2 - Scene	
	B1 - General	
	B1 - Function	
	B1 - Scene	
	B2 - General	

Devices ▾		
<div>Devices</div> <div>Dynamic Folders</div> <div>1.1.1 KNX-Mallia Senses command 4 push with...</div> <div>1.1.2 KNX 0-10V Fan coil Actuator</div> <div>1.1.3 LG-002672 Room Control Unit, 8 Output</div>	1.1.3 LG-002672 Room Control Unit, 8 Output > B2 - Function	
	General	Enable staircase <input type="radio"/> yes <input checked="" type="radio"/> no
	Enable Output A...	Enable external logic <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - General	Enable priority <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Function	Enable sweep <input type="radio"/> yes <input checked="" type="radio"/> no
	A1 - Scene	Enable current detection <input type="radio"/> yes <input checked="" type="radio"/> no
	A2 - General	
	A2 - Function	
	A2 - Scene	
	B1 - General	
	B1 - Function	
	B1 - Scene	
	B2 - General	
	B2 - Function	

2-pipe temperature control
ON/OFF valves, 2 manual hot/cold change-over pipes
3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB
0 028 90
0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.3 Actuator for Lighting 0 026 72 (continued)

Devices ▾		
Devices ▾	1.1.3 LG-002672 Room Control Unit, 8 Output > B2 - Scene	
Dynamic Folders		
1.1.1 KNX-Mallia Senses command 4 push with...	General	Override scene on download <input checked="" type="radio"/> yes <input type="radio"/> no
1.1.2 KNX 0-10V Fan coil Actuator	Enable Output A...	
1.1.3 LG-002672 Room Control Unit, 8 Output	A1 - General	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="1"/>
	A1 - Function	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	A1 - Scene	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="2"/>
	A2 - General	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
	A2 - Function	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="3"/>
	A2 - Scene	Value <input type="radio"/> OFF <input checked="" type="radio"/> ON
	B1 - General	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="4"/>
	B1 - Function	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B1 - Scene	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="0"/>
	B2 - General	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
	B2 - Function	Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="0"/>
	B2 - Scene	Value <input checked="" type="radio"/> OFF <input type="radio"/> ON
		Assignment to scene number (no 1...64, 0 = no assignment) <input type="text" value="0"/>
		Value <input checked="" type="radio"/> OFF <input type="radio"/> ON

2-pipe temperature control

ON/OFF valves, 2 manual hot/cold change-over pipes

3(ON/OFF) Speed ventilation

Cat.No(s): 281027BB

0 028 90

0 026 72

6. DEVICE PARAMETERS WITH ETSS (continued)

6.4 Group address ETSS

Group Addresses																
Add Main Groups Delete Download Info Reset Unload Print																
Search																
Group Addresses		Device	Object	Sending	Data Type	C	R	W	T	U	Product	Program	Length	Priority	Group Ad	Description
Dynamic Folders																
1 HVAC function																
1/0 Control																
1/0/0 HVAC ON/OFF																
1/0/1 HVAC mode																
1/0/2 Valve Heating/Cooling																
1/0/3 Fan speed control																
1/0/4 Fan automatic control																
1/0/5 Scenes																
1/1 Status																
1/1/0 HVAC ON/OFF																
1/1/1 HVAC mode status																
1/1/2 Valve Heating/Cooling status																
1/1/3 Fan speed Status																
1/1/4 Fan automatic status																
2 Temperature management																
2/0 Current temperature																
2/0/1 Temperature																
2/0/2 Setpoint																
2/0/3 Instantaneous Setpoint																

7. NOTES

The whole HVAC system is managed by thermostat 281027BB (heating/cooling regulation, setpoint mode and automatic ventilation).

When the customer arrives in the room, can set the temperature to comfort mode, and when they leave the temperature returns to economy mode or standby mode. (touch "M" button on the thermostat 281027BB to switch each mode.)

The HVAC valve is connected to controller 002890 (D connector) and fan is connected to controller 002890 (A, B, C connector); the room controller 002890 provide ON/OFF to switch or shut valve.

The setpoint value can be altered on thermostat 281027BB by touching the buttons "+" and "-".

The fan speed can be altered by touching the button on the bottom of the thermostat. There are 3 manual fan speed levels and an automatic mode run by the thermostat.