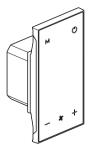
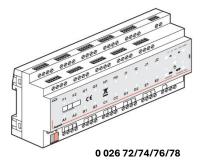


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KG4691F3

#### 1. USAGE SCENARIO

Meeting room, hotel, home



#### 2. Description

The thermostat combined with an RCU actuator is used to control a fan coil equipped with 4 pipes, 3 points ON/OFF valves and 3 - ON/OFF fan. T Automatic change over to switch between Heating/Cooling mode

The system will regulate the temperature of an office around the set point.

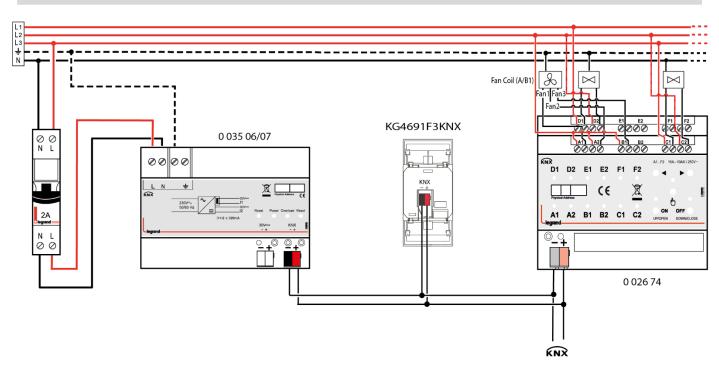
Using the thermostat's touch-sensitive buttons, the user can:

- Change the temperature setpoint.
- Adjust the fan speed.



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## 3. WIRING DIAGRAM

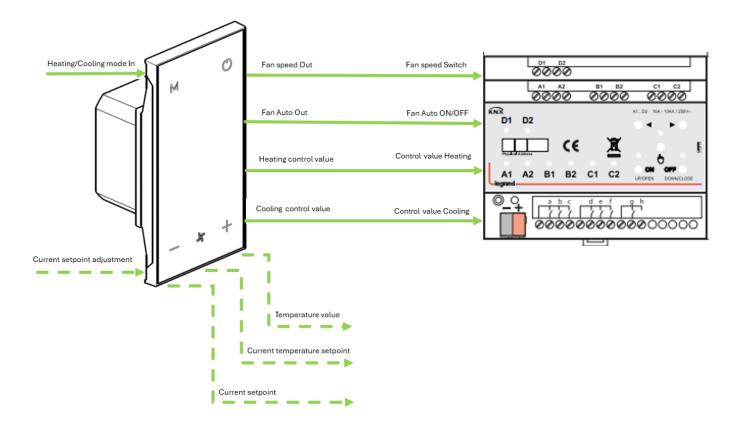


NOTE:	
For more information about wiring each device, refer to the instructions on site.	
www.legrand.com	

#### 4. KNX DIAGRAM



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#### 5. KNX PROJECT

This project **002674-LNow\_Thermoregulation 4P ON-OFF 3 points** is available on www.legrand.com and can be imported into ETS5.



# 6. DEVICE PARAMETERS WITH ETS5 (continued)

# 6.1 Thermostat KG4691KNX (continued)

1.1.1 Living Now 3 in 1 flat thermostat 2M > General > General setting					
– General	Normal day backlight [10100]	100	* %		
General setting	Normal standby backlight [030]	10	\$ %		
+ Internal sensor	Normal to standby delay time [160]	60	S		
internal sensor	Buzzer volume level [05, 0=inactive]	2	•		
+ HVAC controller					

#### 1.1.1 Living Now 3 in 1 flat thermostat 2M > Internal sensor > Measurement setting

-	General	Temperature sensor setting				
	General setting	Temperature calibration	0.0	•	°C	
	ocheral setting	Send temperature when the result change by	1.0	•	°C	
-	Internal sensor	[010] Cyclically send temperature				
	Measurement se	[0255,0=inactive]	10	r	min	

#### 1.1.1 Living Now 3 in 1 flat thermostat 2M > HVAC controller > Controller setting

-	General	Room temperature control function as	FCU control	•
	General setting	Ventilation function Floor heating function		
-	Internal sensor			
	Measurement sett			
-	HVAC controller			
	Controller setting			



# 6. DEVICE PARAMETERS WITH ETS5 (continued)

# 6.1 Thermostat KG4691KNX (continued)

= General	Work mode	Master Slave	
General setting	Room temperature reference from	Internal sensor External sensor	
Internal sensor	Control value after temp. error [0100] (if 2-point control, set value '0'=0, set value '>0'=1)	0	%
HVAC controller	Interface display temperature	Setpoint temperature O Actual temperature	
Controller setting	Setpoint temperature adjustment step	Section temperature     Actual temperature     Actual temperature     Actual temperature	
<ul> <li>FCU setting</li> </ul>			
Heating/Cooling control	Min. setpoint temperature [537]	5	• •0
Fan	Max. setpoint temperature [537]	37	• • • •
	Power on/off status after download	OFF ON	
	Power on/off status after voltage recovery	As before voltage failure	•
	Low temperature protection when power off		
	Temperature	10	• •0
	Room temperature control mode	Heating and Cooling	•
	Heating/Cooling switchover	Automatic changeover	•
	Heating/Cooling status after download	Heating O Cooling	
	Heating/Cooling status after voltage recovery	As before voltage failure	•
	Room temperature control system	O 2 pipes system O 4 pipes system	
	Initial setpoint temperature	20.0	• °(
	Automatic H/C mode changeover dea	ad zone	
	Upper dead zone	2.0	• k
	Lower dead zone	2.0	<b>▼</b> K
		<b>V</b>	-



## 6. DEVICE PARAMETERS WITH ETS5 (continued)

# 6.1 Thermostat KG4691KNX (continued)

# 1.1.1 Living Now 3 in 1 flat thermostat 2M > HVAC controller > FCU setting > Heating/Cooling control

– General	Type of heating control	Continuous control(use PI control)		
General setting	Invert control value			
	Heating speed	Hot water heating(5K/150min)	•	
+ Internal sensor	Send control value on change by [0100,0=inactive]	4	* %	
- HVAC controller				
	Type of cooling control	Continuous control(use PI control)	•	
Controller setting	Invert control value			
<ul> <li>FCU setting</li> </ul>	Cooling speed	Cooling ceiling(5K/240min)	-	
Heating/Cooling control	Send control value on change by	4	\$ %	
Fan	[0100,0=inactive]		V	
	Cyclically send control value[0255]	0	🗘 min	

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

- General	Type of heating/cooling control	Continuous control(use PI control)	*
General setting	Invert control value		
Proximity setting	Heating speed	Hot water heating(5K/150min)	•
- Button	Cooling speed	Cooling ceiling(5K/240min)	
Button setting	Send control value on change by	4	\$ %
Button 1	[0100,0=inactive]	4	* %
Button 2	Cyclically send control value[0255]	0	🇘 min



#### 6. DEVICE PARAMETERS WITH ETS5 (continued)

#### 6.2 Actuator 0 026 74

# 1.1.2 LG-002674 Room Control Unit, 12 Output > General

General	Enable manual operation	odisable o enable	
Enable Output AJ	Reset manual operation to KNX operation	via push button automatically and via push button	
A/B1 - Fan			
A/B1 - Status Message	Device alive operation active First telegram send time in s[2255]	yes ono	
A/B1 - Automatic Operation	Telegram limit active	yes O no	
A/B1 - Direct Mode	Activate scene	🔘 yes 🔵 no	
C/D - Control Input	Weather alarm function	yes no	
.1.2 LG-002674 Room Control	Unit, 12 Output > Enable Output AJ		
General	Output group A and B	fan coil	•
Enable Output AJ	Output group C and D	valve control	•
A/B1 - Fan	Output group E and F	no function	
1.2 LG-002674 Room Control	Unit, 12 Output > Enable Output AJ		
General	Output group A and B	fan coil	
Enable Output AJ	Output group C and D	valve control	
A/B1 - Fan	Output group E and F	individually	

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A/B1 - Status Message

Output group E

Output group F

shutter/blind AC 2 x switch

shutter/blind AC 2 x switch



# 6. DEVICE PARAMETERS WITH ETS5 (continued)

#### 6.2 Actuator 0 026 74

# 1.1.2 LG-002674 Room Control Unit, 12 Output > A/B1 - Fan

General	Select valve with working	valve C/D	*	
Enable Output AJ	Number of fan levels	3	÷	
A/B1 - Fan	Controlling the fan levels	<ul> <li>only one fan output</li> <li>fan hierarchically</li> </ul>		
	Fan operation mode	O changeover switch O step switch		
A/B1 - Status Message	Delay between fan speed switching	500	÷	
A/B1 - Automatic Operation	in ms[505000]	500		
A/B1 - Direct Mode	Fan speed on bus voltage failure	fan off	*	
	Fan speed on bus voltage recovery	fan off	*	
C/D - Control Input	Enable forced operation	🔍 yes 🔵 no		
C - Valve General	Forced operation on object value	© 0 () 1		
C - Function	Limitation on forced operation	3, 2, 1, OFF	*	
D - Valve General	Enable automatic operation	🔘 yes 🔵 no		
D - Function	Enable direct operation	🔘 yes 🔵 no		
5 Foncion	Starting characteristic of fan	yes o no		
F1 - General				
1.1.2 LG-002674 Room Control Ur	nit, 12 Output > A/B1 - Direct Mode			
General	Enable communication object			

General	^	Enable communication object "Switch speed "Å 1 bit	🔘 yes	🔘 no
Enable Output AJ		Enable communication object "Fan speed UP/DOWN"Â 1 bit	🔿 yes	🔘 no
A/B1 - Fan		Enable communication object "Fan speed switch"Â 1 byte	O yes	🔿 no
A/B1 - Status Message				

A/B1 - Direct Mode

A/B1 - Automatic Operation



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# 6. DEVICE PARAMETERS WITH ETS5 (continued)

#### 6.2 Actuator 0 026 74

## 1.1.2 LG-002674 Room Control Unit, 12 Output > C/D - Control Input

General	HVAC system	two control four pipe
Enable Output AJ	Monitoring control valves	🔿 yes 🔘 no
A/B1 - Fan		
A/B1 - Status Message		
A/B1 - Automatic Operation		
A/B1 - Direct Mode		

#### C/D - Control Input

## 1.1.2 LG-002674 Room Control Unit, 12 Output > C - Valve General

General	Valve control	○ two point on/off ◎ three point open/close		
Enable Output AJ	Observe reversing time	no		
A/B1 - Fan	Valve position after bus voltage return	O unchanged of selected		
A/B1 - Status Message	Value control duration from 0100% in s	180		
A/B1 - Automatic Operation	Automatically adjust valve position	🔾 yes 🔘 no		
A/B1 - Direct Mode	Valve limitation	yes 🔘 no		
C/D - Control Input				

#### C - Valve General

1.1.2 LG-002674 Room Control U	Jnit, 12 Output > E1 - Scene		
General	Overwrite scene on download	🔘 yes 🔵 no	
Enable Output AJ	164 scene number (0 = no assignment)	1	*
A/B1 - Fan	Value	OFF ON	
A/B1 - Status Message	164 scene number (0 = no assignment)	2	*
A/B1 - Automatic Operation	Value	OFF ON	
A/B1 - Direct Mode	164 scene number (0 = no assignment)	3	*
C/D - Control Input	Value 164 scene number (0 = no assignment)	OFF ON	*
	104 scene number (0 – no assignment)	4	•

Usage scenario memo: S000126028EN\_1

Updated:

Created: 19/07/2024



# 7. GROUP ADDRESSES

Group Addresses	• Object	Device	Sendin	Data Type *	с	R	W 1	ΓU
📁 Dynamic Folders	▲ 1/0/1 Heating control value							
1 HVAC function	96: FCU - Heating control value, Out	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	percentage (0100%)	С	R	- T	-
▲ I/0 Control	127: Valve C/D - Control value, heating	1.1.2 LG-002674 Room Control Unit, 12 Output	S	percentage (0100%)	С	- )	W -	-
1/0/1 Heating control value	1/0/2 Cooling control value							
	■2 97: FCU - Cooling control value, Out	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	percentage (0100%)	С	R	- T	-
1/0/2 Cooling control value	■2 128: Valve C/D - Control value, cooling	1.1.2 LG-002674 Room Control Unit, 12 Output	S	percentage (0100%)	С	- )	W -	-
🔢 1/0/3 Fan speed control	▲ 1/0/3 Fan speed control							
🔀 1/0/4 Fan Automatic control	■2 95: Fan A/B1 - Fan speed switch	1.1.2 LG-002674 Room Control Unit, 12 Output	S	counter pulses (0255)	С	- 1	W -	-
🔀 1/0/5 Scenes	■2 98: FCU - Fan speed, Out	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	percentage (0100%)	С	R	- T	-
▲ 🎛 1/1 Status	1/0/4 Fan Automatic control							
1/1/1 Mode Heating/Cooling Status	106: Fan A/B1 - Automatic ON/OFF	1.1.2 LG-002674 Room Control Unit, 12 Output	S	enable	С	- 1	W -	-
1/1/2 Fan speed Status	■2 99: FCU - Fan Automatic operation, Out	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	enable	С	R	- T	-
1/1/3 Fan automatic status	▲ 1/0/5 Scenes							
	■\$ 1: General - Scene 8-bit	1.1.2 LG-002674 Room Control Unit, 12 Output	S	scene control	С	- )	W -	-
2 Temperature management	1/1/2 Fan speed Status							
2/0 Current temperature	101: Fan A/B1 - Status fan speed	1.1.2 LG-002674 Room Control Unit, 12 Output	S	counter pulses (0255)	С	R	- T	-
🤀 2/0/1 Temperature	■2 83: FCU - Fan speed, In	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	percentage (0100%)	С	- 1	WΤ	U
🔀 2/0/2 Setpoint	▲ 1/1/3 Fan automatic status							
2/0/3 Instanteneous Setpoint	■2 107: Fan A/B1 - Status automatic	1.1.2 LG-002674 Room Control Unit, 12 Output	S	enable	С	R	- T	-
	■2 84: FCU - Fan automatic operation, In	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	enable	C	- \	WΤ	U
	2/0/1 Temperature							
	38: Internal sensor - Temperature value	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	temperature (°C)	С	R -	- T	-
	2/0/2 Setpoint							
	■2 80: FCU - Current temperature setpoint, In	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	temperature (°C)	С	- 1	W -	U
	2/0/3 Instanteneous Setpoint							
	93: FCU - Current setpoint adjustment, Out	1.1.1 Living Now 3 in 1 flat thermostat 2M	S	temperature (°C)	С	R	- T	-

#### 8. NOTES

The whole HVAC system is managed by thermostat Living Now (heating/cooling regulation, setpoint, manual & automatic ventilation).

The HVAC and FAN value is connected to controller 0 026 74 (A, B1 and C connector), The room controller 0 026 74 provide ON/OFF to switch or shut value.

The setpoint value can be altered on thermostat KG4691F3 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.

Unused actuator outputs can be configured for lighting or roller shutter control.