

#### OCTOBER 2020

## **ABB RoomTouch® KNX – Control of Fans and Split Units**

### Online Learning Session – Competence Center Europe – Smart Buildings

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Document ID.:

### Webinar – Competence Center Europe - Smart Buildings



**ABB STOTZ-KONTAKT GmbH** Heidelberg / Germany







ABB Busch-Jaeger Luedenscheid / Germany







ABB RoomTouch®

Introduction

Control element "Split Unit Control"

Control element "Fan switch"



#### ABB RoomTouch® KNX

Easy operation, easy commissioning, easy installation according to customer desire, regardless of private home, meeting room or hotel

- Small touch displays to control rooms are upcoming
- A touch panel is more flexible then a static push-button
- Lots of functions on a small space
- High quality of material:
  - Glass
  - Metal
- Known smartphone control concept by wiping up/down left/right



Introduction

#### ABB RoomTouch® KNX

- ABB RoomTouch<sup>®</sup> will expand our range by an additional highquality KNX Touch panel
- One device and two colors (black and white)
- One Panel that can be mounted portrait and landscape
- New operating concept for quick operation of your lights, blinds, temperature, scenes and audio
- Flat, good looking device with enough functions for a room and for the right price
- Integrated temperature sensor
- Proximity sensor will switch on the device when I am near to it
- Quick switch off when the room is dark (bedroom application)
- Commission via ETS and DCA



Introduction

#### ABB RoomTouch® KNX

Maximum of 30 control elements

- Switch
- Dimmer (4-bit and 8-bit)
- Shutter
- RTC
- Scene
- Value

- ...

- RGB(W) / White colour control
- Display element
- Audio control
- Split unit control
- Fan speed control



Control element: Fan speed control



Control element: Split unit control

Introduction

#### ABB RoomTouch<sup>®</sup> KNX

Webinar about installation, operating concept, commissioning with DCA, ... (Sept. 2020)

- Presentation  $\rightarrow$  Link
- Video recording  $\rightarrow$  Link

#### Homepage

• ...

- <u>www.abb.com/knx</u>  $\rightarrow$  Visualisation, Display and Signalling
  - Product Manual
  - Installation and Operating Instructions
  - ETS Application (\*.knxprod)
  - ETS App ABB Touch DCA (\*.etsapp)



+ PDF

KNXPROD

+ PDF

1 MP4

Control element "Split Unit Control"

Control element "Split Unit Control"

#### What is a Spit Unit?

Decentralized air-conditioning systems were developed by adding a ventilation and heating function to the window-mounted air conditioners commonly used in the hot regions of Asia and America

They are preferentially used for retrofitting in individual rooms (ceiling, wall or parapet)

With a decentralized air-conditioning system in the form of a split unit, the refrigerant is compressed outdoors, while the airtreatment processes (air conveyance, filtering and temperature control) are performed in the room to be cooled

Many small units only recirculate the room air to cool it

Some devices draw in a small amount of air ahead of the facade (independently of the building's orientation), blow it into the room and usually discharge the same quantity of exhaust air from the room to the outside

Source: WIKIPEDIA



Control element "Split Unit Control"

### What is a Split Unit Gateway?

Many manufacturers' air-conditioning units, so-called split units, are operated using an infrared remote control from the manufacturer

The Split Unit Gateway now replaces this remote control

The Split Unit Gateway forms the interface between the KNX system and the air-conditioning systems from many manufacturers, also referred to as split units

It allows users to integrate the split unit into a KNX system for convenient, energy efficient control

The Split Unit Gateway is installed near the split unit, and the transmitter of the supplied cable is bonded directly to the receiver of the split unit

The device converts KNX telegrams to infrared commands and sends them to the split unit



Control element "Split Unit Control"

#### KNX Split Unit Gateway SUG/U 1.1 - Software functions\*

- On/Off
- Specify setpoint temperature including parameterizable setpoint temperature limits
- Set operating mode (Automatic, Heating, Cooling, Ventilation, Drying)
- Fan speed control (1-bit/1-byte)
- Horizontal and/or vertical swing
- Silent Mode
- Further functions: Forced operation, window contact, presence, scene (8 bit) and boost
- Status objects
- ...

\* If the function is supported by the split unit device

General	Manufactures	DAIKIN					
plit Unit settings	Manufacturer						
	Remote control (type)	U-DK1,2					
nctions	Note: Please select the remote control ty charge at our KNX online shop)	pe with the ETS App "ABB SUG/U 1.1" (available free of					
orced operation							
Vindow contact	Limit setpoint temperature range	No Ves					
	Max. heating setpoint temperature	23					
resence	Min. cooling setpoint temperature	18					
enes	Note: The setpoint temperature limit is a	ctivated after the download.					
post	Control fan speed with object	1 Bit up/down and 1 byte					
atus objects	,	0%=Auto 1-33%=Low 34-66%=Med >66%=					
	Coding of 1 byte	O=Auto, 1=Low, 2=Med, 3=High					
	Note: If the Split Unit supports more than High.	n 3 fan speeds, only 3 speeds are mapped to Low/Med,					
	Note: The ETS App shows how the fan sp	eeds are mapped.					
	Send infrared commands	Only if calculated change Always					
	Enable "Simplified mode"	🔵 No 🔘 Yes					
	(0=Cooling, 1=Heating)						
	Enable "Silent mode"	No Ves					

Control element "Split Unit Control"

### KNX Split Unit Gateway SUG/U 1.1

Webinar about installation, operating concept, commissioning with DCA, ... (Sept. 2017)

- Presentation  $\rightarrow$  Link
- − Video recording → Link

#### Homepage

• ...

- <u>www.abb.com/knx</u> → Heating, Ventilation and Air Conditioning
  - Product Manual
  - Installation and Operating Instructions
  - ETS Application (\*.knxprod)
  - ETS App ABB Touch DCA (\*.etsapp)



Control element "Split Unit Control"

#### Overview Split Unit Control with KNX Split Unit Gateway SUG/U 1.1



Control element "Split Unit Control"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to a line or room

III ETSS" - RoomTouch ETS Edit Workplace Commissioning Diagnostics Appl Himdre	×
🔞 Close Project 🎻 Undo 🐴 Redo 🚔 Reports 📰 Workpis 📳 Catalogs 🕌 Diagnostics 🧾 Building 🎹 Topology	Group Addresses
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🕂 Add Devices   🔹 🗙 Delete 🛬 Dwinload   🔹 🔞 Help 🌛 Highlight Changes 🛛 Default Parameters 🛛 Grant Customer Access	0 🗐 🗆 🗿
Topology Backbone 9 3 1 BT/U30 0 1 ABB BoomTouch > DraTouch	Sett IP Co Info.
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4 🗄 9.3 Line 9.3.xxx	Individual Address
	9.3 1 + Park
9.3.1 KI/U30.0.1 ABB RoomTouch	Description
■ 9.322 Solit Unit G	
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▶ 📳 9.3.26 UK/S32.2 Universal I/O-Co	Senai Number
9.3.255 USB-Interface	Status
	Find and Replace
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	Pending Operations
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Group Objects Channels Parameters DCA	- Oldo History

Control element "Split Unit Control"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning





Control element "Split Unit Control"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Set number of controls on this page to "1"



Control element "Split Unit Control"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Set number of controls on this page to "1"
  - Drag the control element "Split Unit Control" from the task bar to the field of the page



Control element "Split Unit Control"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Set number of controls on this page to "1"
  - Drag the control element "Split Unit Control" from the task bar to the field of the page
  - Set the parameters



Control element "Split Unit Control"

#### **Commissioning with the ETS**

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Set number of controls on this page to "1"
  - Drag the control element "Split Unit Control" from the task bar to the field of the page
  - Set the parameters
  - Link group addresses
  - Download individual address and application

ETS5™ - RoomTouch \_\_\_\_ FTS Workplace Commissioning Diagnostics Apps Window 💉 Undo 🔨 Redo 🚔 Reports 📰 Workplace 🕶 🔡 Catalogs 📰 Diagnostics 🚊 Building 📊 Topology 🚺 Group Addresses 😱 Devices Propertie Find and Replace 🗙 Delete 붗 Download 💌 🕦 Info 💌 🌮 Reset 🐇 Unload 💌 🚍 Prir Workspaces Topology Backbor 🖢 Import 📑 Export 📻 Preview 🎣 Reset Layout 💥 Clear all Version: 1.1.1 (Build 3) O Todo Items Dynamic Folder (U) Switch 😓 Rocker Switch 💃 Dimmer 🔁 Dimmer slider 🖗 RGBW Control 😇 Value slider 📑 Blind 🖧 Fan Switch 🔂 Scene 📾 Display 🐇 RTC Control frame Pending Operation 9 Area 9.xx.xxx Split Unit Control C Audio contro 4 🗄 9.3 Line 9.3.xxx Active Applications Navigation 19.3.0 IP Router IPR/S3.1.1 Genera Clear Histor A RT/U30.0.1 ABB RoomTouch Split Unit Control 9.3.1 RT/U30.0.1 ABB RoomTouch Name of control elemen Living room Start page 1 9.3.21 ABB RoomTouch RT/U30.0.1 Minimum Setpoint value Split Unit Contro 9.3.22 Split Unit Gateway SUG/U. Add page Maximum Setpoint value 9.3.23 Blower Actuator FCL/S1.6. Living room Step size of setpoint adjustmen 9.3.24 Blower Actuator FCL/S1.6. Show Actual temperature 9.3.25 Universal Interface US/U4.2 Number of Fan speeds (without Auto 9.3.26 UK/S32.2 Universal I/O-Co. Use Automatic Mode for Far 9.3.255 USB-Interface Use modus: Automati Use modus: Heating Use modus: Cooling Use modus: Drving Use modus: Fan Use horizontal swin 6 Use vertical swing Use extra mode: Silence Mor There are no completed ope Use additional modus: Boost Use additional modus: Forced op Use additional modus: Scene 518: Control On/Off - input/ 519: Setpoint temperature - input/out 520: Actual temperature - input 521: Fan level - input/output 522: Operation mode - input/output 523: Horizontal swing - input/output 524: Vertical swing - input/output 526: Boost - input 527: Forced operation - input 1 of 10 pages used Undo History Group Objects DCA PR/S3.1.1 IP-Router.REG (192.168.1.114 9.3.1 RT/U30.0.1 ABB RoomTou last used s

• ...



Control element "Split Unit Control"

#### Parameters 1/3

Parameters and functions must be supported by the split unit device

- Name of control element (max 36. characters)
- Minimum setpoint value: 16°C ... 32°C
- Maximum setpoint value: 16°C ... 32°C
- Step size of setpoint adjustment: 0.1°C, 0.2°C, 0.5°C or 1.0°C
- Display actual temperature
- Number of fan speed levels (without AUTO): 1, 2 or 3
- Use automatic mode for fans: Disabled or activated

16 Minimum Setpoint value Maximum Setpoint value 32 Step size of setpoint adjustment 1.0°C 1 Show Actual temperature Number of Fan speeds (without Auto) Use Automatic Mode for Fan ~ Use modus: Automatic ~ ~ Use modus: Heating ~ Use modus: Coolina -Use modus: Drying ~ Use modus: Fan 1 Use horizontal swing -Use vertical swing Use extra mode: Silence Mode Use additional modus: Boost Use additional modus: Forced operation Use additional modus Window contact Use additional modus Presence Enable communication object "Disable" 1 bit

Living room

Parameter

General

Name of control element

- ...

Control element "Split Unit Control"

#### Parameters 2/3

Parameters and functions must be supported by the split unit device

- ...

- ...

- Use modus: Automatic: Disabled or activated
- Use modus: Heating: Disabled or activated
- Use modus: Cooling: Disabled or activated
- Use modus: Drying: Disabled or activated
- Use modus: Fan: Disabled or activated
- Use horizontal swing: Disabled or activated
- Use vertical swing: Disabled or activated

Living room Name of control element Minimum Setpoint value 16 Maximum Setpoint value 32 Step size of setpoint adjustment 1.0°C 1 Show Actual temperature Number of Fan speeds (without Auto) 3 Use Automatic Mode for Fan ~ Use modus: Automatic ~ -Use modus: Heating ~ Use modus: Coolina ~ Use modus: Drying ~ Use modus: Fan -Use horizontal swing ~ Use vertical swing Use extra mode: Silence Mode Use additional modus: Boost Use additional modus: Forced operation Use additional modus Window contact  $\square$ Use additional modus Presence Enable communication object "Disable" 1 bit

Parameter

General

Control element "Split Unit Control"

#### Parameters 3/3

Parameters and functions must be supported by the split unit device

- ...

- Use extra mode: Silent Mode: Disabled or activated
- Use additional modus: Boost: Disabled or activated
- Use additional modus: Forced operation: Disabled or activated
- Use additional modus: Window contact: Disabled or activated
- Use additional modus: Presence: Disabled or activated
- Enable 1-bit communication object "Disable" (temporarily disabling the function via an additional communication object)

General		
Name of control element	Living room	
Minimum Setpoint value	16	\$
Maximum Setpoint value	32	¢
Step size of setpoint adjustment	1.0°C	*
Show Actual temperature	$\checkmark$	
Number of Fan speeds (without Auto)	3	•
Use Automatic Mode for Fan	$\checkmark$	
Use modus: Automatic	~	
Use modus: Heating	$\checkmark$	
Use modus: Cooling	$\checkmark$	
Use modus: Drying	$\checkmark$	
Use modus: Fan	$\checkmark$	
Use horizontal swing	$\checkmark$	
Use vertical swing	$\checkmark$	
Use extra mode: Silence Mode		
Use additional modus: Boost		
Use additional modus: Forced operation		
Use additional modus Window contact		
Use additional modus Presence		
Enable communication object "Disable" 1 t	pit 🗌	

Control element "Split Unit Control"

#### Parameters – Example

- Split Unit Manufacturer: DAIKIN
- Remote (type): ARC466A2 V1
- Set point temperature: 16°C ... 30°C
- Operating modes: Automatic, Heating, Cooling, Ventilation and Drying
- Fan Speeds: 0=Automatic, 1=Low, 2=Medium and 3=High
- Swing: Vertical
- Silent mode: Not supported



Control element "Split Unit Control"



On/Off	
Status On/Off	
Setpoint temperature	
Status Setpoint temp.	
Fan speed	
Status fan speed	
Operating mode	
Status Operating mode	
Vertical swing	
Status Vertical swing	Fxample: DAIKIN
	Remote ARC466A2 V
	<b>-</b> _

Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"

#### Parameters – Example Split Unit "DAIKIN" and Remote "ARC466A2 V1": Assignment of Group Addresses



N X	Forced operation (1 bit input)
ntro	Window contact (1 bit input)
S	Presence (1 bit input)
lnit	Boost (1 bit input)
lit U	Disable (1 bit input)
Spl	Actual temperature (2 byte input)

Temperature sensor, ...

Keycard reader, time switch ,...



Security Terminal, ...

Time switch ....

Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"



Control element "Split Unit Control"

#### **Operation and view**



Control element "Fan switch"

Control element "Fan switch"

### **Overview Fan Control with Blower Actuator FCL/S x.6.1.1**



Control element "Fan switch"

#### **Overview Blower Actuator FCL/S x.6.1.1**

- A Blower Actuator FCL/S x.6.1.1 is used in ventilation applications
- FCL/S 1.6.1.1 controls a fan with up to three fan speeds
- FCL/S 2.6.1.1 controls two independent fans with up to three fan speeds
- Additional switching outputs
- Automatic Control: Regulation via RTC and/or air quality sensor
- Direct Operation: Manual operation via control element, ...
  - 1 byte object for any fan speed (0 ... 3)
  - 1 bit objects for each fan speed
  - 1 bit object for going up/down
- Limitations (e.g. sleeping mode) and forced operation
- Fan operating mode: Changeover or step switching
- Start up behavior and Run-on behavior





FCL/S 1.6.1.1





Control element "Fan switch"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view

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	Find and Replace
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	⑦ Todo Items
	Pending Operations
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Control element "Fan switch"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning



Control element "Fan switch"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Drag the control element "Fan Switch" from the task bar to the field of the page



Control element "Fan switch"

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Drag the control element "Fan Switch" from the task bar to the field of the page
  - Set the parameters



ETS5™ - RoomTouch

Topology Backb

Workplace Commissioning Diagnostics Apps Window

FTS

Control element "Fan switch"

#### **Commissioning with the ETS**

- The ABB RoomTouch<sup>®</sup> is parameterized with the "ABB Touch DCA" (device configuration app) like all other panels (SmartTouch, IP touch 7, ...)
- Add ABB RoomTouch to the building or topology view
- Click on the "DCA" tab and start the commissioning
  - Drag the control element "Fan Switch" from the task bar to the field of the page
  - Set the parameters
  - Link group addresses
  - Download individual address and application

Dynamic Folder Name USwitch 🖞 Rocker Switch 🖞 Dimmer 🧟 Dimmer slider 🕅 RGBW Control 🔤 Value slider 🔚 Blind 👃 Fan Switch 🔂 Scene 📾 Display 🕷 RTC Control frame Output steps 1 9 Area 9 xx xxx Split Unit Control 🕼 Au Description 4 🗄 9.3 Line 9.3.xxx Applications Navigation FanSwitch - Output steps (byte 930 IP Router IPR/S311 Start pages Name of control element Fan Switch RT/U30.0.1 ABB RoomTouch Iomepage 9.3.1 RT/U30.0.1 ABB RoomTouch Disable Off control Start pages 9.3.21 ABB RoomTouch RT/U30.0.1 Type of icon Standard O User-defined Homepage Priority 9.3.22 Split Unit Gateway SUG/U. Add page Low Fan Switch Icon for On 9.3.23 Blower Actuator FCL/S1.6... Flags 9.3.24 Blower Actuator FCL/S1.6.. Icon for Off Communica 9.3.25 Universal Interface US/U4.2 Read Telegram is repe ✓ Write 9.3.26 UK/S32.2 Universal I/O-Co. Number of step J Transmit 9.3.255 USB-Interface Update Object type 1 bit [0/1] 0 1 byte unsigned [0..255] Read On Ir Value Off Data Type 20.008 PSU mode Value step 20.011 system error class Value step 2 20.012 HVAC error class 20.013 time delay Value step 3 5 20.014 wind force scale (0..12 20.017 sensor mode Display Status 20.020 actuator con Text Off 20.021 cloud cover 20.022 power return mod Text step 20.100 fuel type 20.101 burner type 20.102 HVAC mode 0.103 DHW mode ommunication Objects 20.104 load priority 526: Output steps - output/inp 0.105 HVAC control mode ▲ RR 28/2 FanSwitch 20.106 HVAC emergency mod 28/2/1 FanSwitch - Output steps (b) 28/2/1 FanSwitch 28/2/2 FanSwitch - Status Fan spee Default 1 28/2/2 FanSwitch - Status Far 527: Disable - input 28/2/3 FanSwitch - Disable C Find and Replace 28/2/3 FanSwitch - Disable Contro 28/2/11 FanSwitch - Output : Workspaces O Todo Items Copy Pending Operations 1 of 10 pages use + Add X Delete Paste Add to favourite Undo History DCA Group Objects IPR/S3.1.1 IP-Router.REG (192.168.1.114... 9.3 Line 9.3.1 9.3.1 RT/U30.0.1 ABB RoomTouc

💉 Undo 🔨 Redo 🚔 Reports 📰 Workplace 🕶 🔡 Catalogs 📰 Diagnostics 🧾 Building 📊 Topology 🛐 Group Addresses 🗊 Devices

Unload T == P

Export 📰 Preview 🔊 Reset Layout 🗶 Clear all

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Sett... IP Co... Info

Version: 1.1.1 (Build 3)

Control element "Fan switch"

#### Parameters

- Name of control element (max 36. characters)
- Disable of control (completely switched off)
- Type of icons for On and Off: Standard or user-defined
- Telegram is repeated every ... seconds
- Number of steps (fan speed levels):1...8
- Object type: 1 bit or 1 byte unsigned 0 ... 255

Name of control element	Fan Switch	
Disable Off control		
Type of icons	Standard OUser-o	defined
Icon for On	*	-
Icon for Off	品	•
Telegram is repeated every [s]	0.5s	•
Number of steps	3	\$
Object type	🗌 1 bit [0/1] 🛛 0 1 byt	e unsigned (025
Value Off	0	\$
Value step 1	1	\$
Value step 2	2	\$
Value step 3	3	\$
Display Status	User-defined	-
Text Off	Off	
Text step 1	Step 1	
Text step 2	Step 2	
Text step 3	Step 3	
Text Out of range	Fault	
Enable communication object "Disab	le" 1 bit 🗌	

Control element "Fan switch"

#### Parameters: Object type 1 bit or 1 byte unsigned 0 ... 255

- Direct: Operation via control element, ABB RoomTouch, ...
  - 1 byte object for any fan speed (0 ... x) Group object "Fan speed switch"
  - 1 bit objects for each fan speed Group object "Fan switch speed 1" Group object "Fan switch speed 2" Group object "Fan switch speed x"
  - 1 bit object for going up/down Group object "Fan speed up/down"
- Status messages
  - 1 byte object for any status of the fan speed (0 ... x) Group object "Status fan speed"
  - 1 bit objects for each fan speed Group object "Status fan speed 1" Group object "Status fan speed 2" Group object "Status fan speed x"





Control element "Fan switch"

#### Parameters: Object type 1 byte unsigned 0 ... 255

- Direct: Operation via control element, ABB RoomTouch, ...
  - 1 byte object for any fan speed (0 ... x) Group object "Fan speed switch"
  - 1 bit objects for each fan speed Group object "Fan switch speed 1" Group object "Fan switch speed 2" Group object "Fan switch speed x"
  - 1 bit object for going up/down Group object "Fan speed up/down"
- Status messages
  - 1 byte object for any status of the fan speed (0 ... x) Group object "Status fan speed"
  - 1 bit objects for each fan speed Group object "Status fan speed 1" Group object "Status fan speed 2" Group object "Status fan speed x"





Control element "Fan switch"

#### Parameters: Object type 1 byte unsigned 0 ... 255

Only two group addresses are required

- Direct Operation
  - 1 byte group address "Fan speed switch" (0 ... x)
- Status message
  - 1 byte group address "Status fan speed" (0 ... x)

Communication Objects

1216: Output steps - output/input 1217: Disable - input

 $\rightarrow$  Preferred application

(FCL/S: Start up behavior, fan operating mode changeover or step switching, waiting time between switching, ...)





Control element "Fan switch"

		•••										BIO	
	×	Outpu	ut steps (1	byte o	utput/input)		Fan speed s	wito	ch (1 byt	e)   _	,		
Dining room		Disable input (1 bit input)			Status Fan speed (1 byte)			e) an		r Ac			
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		<b>#</b> ▲ 1 2 3 4 5 6 7	Time 13.10.2020 11:48:05,429 13.10.2020 11:48:05,945 13.10.2020 11:48:09,088 13.10.2020 11:48:09,117 13.10.2020 11:48:11,756 13.10.2020 11:48:12,282 13.10.2020 11:48:15,663	Sei         Fla         Pri         Sei           fr         L	ABB RoomTouch RT/U30.0.1 Blower Actuator FCL/S1.6.1.1 (byte) Blower Actuator FCL/S1.6.1.1 (byte) ABB RoomTouch RT/U30.0.1	Destination         Dec           28/2/1         Fant           28/2/2         Fant           28/2/1         Fant           28/2/2         Fant           28/2/1         Fant           28/2/2         Fant           28/2/2         Fant           28/2/2         Fant           28/2/2         Fant           28/2/1         Fant           28/2/2         Fant           28/2/2         Fant	stination Name Switch - Output steps (byte) Switch - Status Fan speed (byte) Switch - Output steps (byte) Switch - Status Fan speed (byte) Switch - Output steps (byte) Switch - Status Fan speed (byte) Switch - Output steps (byte)	<b>Ro</b> 6 6 6 6 6 6 6	GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite	DPT 5.010 count 5.010 count 5.010 count 5.010 count 5.010 count 5.010 count 5.010 count	Info \$00 0 \$00 1 \$01 1 \$01 1 \$03 3 \$03 3 \$00 0		An ju gur

Control element "Fan switch"

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<b>▼</b>		<b>#</b> * 1 2 3	Time 13.10.2020 11:48:05,429 13.10.2020 11:48:05,945 13.10.2020 11:48:09,088	Sei         Fla         Pri         1           fr         L         9         1	Source Source Name 3.21 ABB RoomTouch RT/U30.0.1 3.23 Blower Actuator FCL/S1.6.1.1 (byte) 3.21 ABB RoomTouch RT/U30.0.1	Destinatior         Dest           28/2/1         FanSv           28/2/2         FanSv           28/2/1         FanSv	tination Name witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte)	<b>Rc</b> 6 6	out Type GroupValueWrite GroupValueWrite GroupValueWrite	DPT 5.010 count 5.010 count 5.010 count	Info \$00   0 \$00   0 \$01   1		A
<b>▼</b>		<b>#</b> * 1 2 3 4	Time 13.10.2020 11:48:05,429 13.10.2020 11:48:05,945 13.10.2020 11:48:09,088 13.10.2020 11:48:09,117	Se         Fla         Pri           fr         L         9	Source         Source Name           3.21         ABB RoomTouch RT/U30.0.1           3.23         Blower Actuator FCL/S1.6.1.1 (byte)           3.21         ABB RoomTouch RT/U30.0.1           3.21         Blower Actuator FCL/S1.6.1.1 (byte)           3.23         Blower Actuator FCL/S1.6.1.1 (byte)	Destinatior         Dest           28/2/1         FanSv           28/2/2         FanSv           28/2/1         FanSv           28/2/2         FanSv           28/2/2         FanSv	tination Name witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte) witch - Status Fan speed (byte)	<b>R</b> c 6 6 6	GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite	DPT 5.010 count 5.010 count 5.010 count 5.010 count	Info \$00 0 \$00 0 \$01 1 \$01 1		ALS 10(1) FELSION ALS 10(1) ALS 10(1) AL
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►		# * 1 2 3 4 5 6 7	Time 13.10.2020 11:48:05,429 13.10.2020 11:48:05,945 13.10.2020 11:48:09,088 13.10.2020 11:48:09,117 13.10.2020 11:48:11,756 13.10.2020 11:48:12,282 13.10.2020 11:48:15,663	Sei         Fla         Pri           fr         L         9	Source         Source Name           3.21         ABB RoomTouch RT/U30.0.1           3.23         Blower Actuator FCL/S1.6.1.1 (byte)           3.21         ABB RoomTouch RT/U30.0.1           3.23         Blower Actuator FCL/S1.6.1.1 (byte)           3.21         ABB RoomTouch RT/U30.0.1           3.23         Blower Actuator FCL/S1.6.1.1 (byte)           3.21         ABB RoomTouch RT/U30.0.1           3.23         Blower Actuator FCL/S1.6.1.1 (byte)           3.21         ABB RoomTouch RT/U30.0.1	Destinatior         Dest           28/2/1         FanSv           28/2/2         FanSv           28/2/1         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/1         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/2         FanSv           28/2/1         FanSv	tination Name witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte)	<b>R</b> c 6 6 6 6 6 6 6	GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite GroupValueWrite	DPT 5.010 count 5.010 count 5.010 count 5.010 count 5.010 count 5.010 count	Info \$00 0 \$01 1 \$01 1 \$03 3 \$03 3 \$00 0		A

Control element "Fan switch"

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	×	Outpu	Output steps (1 byte output/input)					Fan speed s		ch (1 byte)	<b>_</b>	CL/		
Dining room		Disable input (1 bit input)				Status Fan s		atus Fan speed (1 byte)			'S X.			
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		# *	Time	Se: Fla	Pri Source	e Source Name	Destinatior Des	itination Name	Ro	out Type DPT	Info	o	FU.513(); Am: cop <sup>b</sup> 662	
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		#▲ 1 2 3 4 5 6 7	Time 13.10.2020 11:48:05,429 13.10.2020 11:48:05,945 13.10.2020 11:48:09,088 13.10.2020 11:48:09,117 13.10.2020 11:48:11,756 13.10.2020 11:48:12,282 13.10.2020 11:48:15,663	Se         Fla           fr         L           fr         L	Pri Source 9.3.21 9.3.23 1 9.3.23 1 9.3.23 1 9.3.23 1 9.3.23 1 9.3.23 1 9.3.23	ABB RoomTouch RT/U30.0.1 Blower Actuator FCL/S1.6.1.1 (byte) ABB RoomTouch RT/U30.0.1 Blower Actuator FCL/S1.6.1.1 (byte) ABB RoomTouch RT/U30.0.1 Blower Actuator FCL/S1.6.1.1 (byte) ABB RoomTouch RT/U30.0.1	Destination         Dest           28/2/1         FanS           28/2/2         FanS           28/2/1         FanS           28/2/2         FanS           28/2/1         FanS           28/2/2         FanS           28/2/1         FanS           28/2/2         FanS           28/2/1         FanS           28/2/1         FanS           28/2/1         FanS	tination Name witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte) witch - Status Fan speed (byte) witch - Output steps (byte)	<b>Ro</b> 6 6 6 6 6 6 6	Type         DPT           GroupValueWrite         5.010           GroupValueWrite         5.010	Info count \$00 count \$00 count \$01 count \$03 count \$03 count \$03 count \$03	o 10 11 11 13 13 10	PELSIAL3 Aminosi Ring King	

Control element "Fan switch"



Control element "Fan switch"



Control element "Fan switch"

#### Parameters: Object type 1 byte unsigned 0 ... 255

- Value Off ( $\rightarrow$  0)
- Value step X (step 1  $\rightarrow$  1, step 2  $\rightarrow$  2, step x  $\rightarrow$  x, ...)
- Display status (texts are displayed for the levels):
   No, default or user-defined
- Text out of range
- Enable 1-bit communication object "Disable" (temporarily disabling the function via an additional communication object)

Name of control element	Fan Switch	
Disable Off control		
Type of icons	Standard O User-d	efined
Icon for On	*	•
lcon for Off	L	•
Telegram is repeated every [s]	0.5s	*
Number of steps	3	\$
Object type	🔵 1 bit [0/1] 🛛 0 1 byte	unsigned [0255
Value Off	0	\$
Value step 1	1	\$
Value step 2	2	\$
Value step 3	3	\$
Display Status	User-defined	•
Text Off	Off	
Text step 1	Step 1	
Text step 2	Step 2	
Text step 3	Step 3	
	Fault	

Control element "Fan switch"

- Direct: Operation via control element, ABB RoomTouch, ...
  - 1 byte object for any fan speed (0 ... x) Group object "Fan speed switch"
  - 1 bit objects for each fan speed Group object "Fan switch speed 1" Group object "Fan switch speed 2" Group object "Fan switch speed x"
  - 1 bit object for going up/down Group object "Fan speed up/down"
- Status messages
  - 1 byte object for any status of the fan speed (0 ... x) Group object "Status fan speed"
  - 1 bit objects for each fan speed Group object "Status fan speed 1" Group object "Status fan speed 2" Group object "Status fan speed x"





Control element "Fan switch"

#### Parameters: Object type 1 bit

More group addresses are required

- Direct Operation: 1 bit group addresses T Communication Objects
  - "Fan switch speed 1"
    "Fan switch speed 2"
    "Fan switch speed 3"
    "Fan switch speed x"
- Status message: 1 bit group addresses
  - "Status fan speed 1"
    "Status fan speed 2"
    "Status fan speed 3"
    "Status fan speed x"

 $\rightarrow$  Only for special applications

1208: Output 1 - output/input 1209: Output 2 - output/input 1210: Output 3 - output/input 1211: Output 4 - output/input 1212: Output 5 - output/input 1213: Output 6 - output/input 1214: Output 7 - output/input 1215: Output 8 - output/input 1217: Disable - input



Actuator

 Status fan speed 1

 Status fan speed 2

 Status fan speed 3

 Status fan speed 3

 Status fan speed 4



Control element "Fan switch"

- Sending also the 0 bits (whether also switching commands with value "0" are sent)
- Switch pattern: "1 of n", "x of n" or "Gray code"
  - "1 of n": Group objects 8 ... 1

speed level	8	7	6	5	4	3	2	1
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	0
3	0	0	0	0	0	1	0	0
4	0	0	0	0	1	0	0	0
5	0	0	0	1	0	0	0	0
6	0	0	1	0	0	0	0	0
7	0	1	0	0	0	0	0	0
8	1	0	0	0	0	0	0	0

Name of control element	Fan Switch	
Disable Off control		
Type of icons	Standard	User-defined
lcon for On	7	•
Icon for Off	L	•
Telegram is repeated every [s]	0.5s	•
Number of steps	3	\$
Object type	0 1 bit [0/1]	1 byte unsigned [0255]
Send also the 0 bits	V	
Switch pattern	1 of n	*
Display Status	User-defined	-
Text Off	Off	
Text step 1	Step 1	
Text step 2	Step 2	
Text step 3	Step 3	
Text Out of range	Fault	
Enable communication object "Disable" 1 b	it 🖌	

Control element "Fan switch"

- Sending also the 0 bits (whether also switching commands with value "0" are sent)
- Switch pattern: "1 of n", "x of n" or "Gray code"
  - "x of n": Group objects 8 ... 1

speed level	8	7	6	5	4	3	2	1
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	1
3	0	0	0	0	0	1	1	1
4	0	0	0	0	1	1	1	1
5	0	0	0	1	1	1	1	1
6	0	0	1	1	1	1	1	1
7	0	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1

Name of control element	Fan Switch	
Disable Off control		
Type of icons	Standard O User-d	efined
Icon for On	7	•
Icon for Off	L	•
Telegram is repeated every [s]	0.5s	•
Number of steps	3	\$
Object type	1 bit [0/1]	unsigned [0255]
Send also the 0 bits		
Switch pattern	x of n	*
Display Status	User-defined	•
Text Off	Off	
Text step 1	Step 1	
Text step 2	Step 2	
Text step 3	Step 3	
Text Out of range	Fault	
Enable communication object "Disable	e" 1 bit 🖌	

Control element "Fan switch"

- Sending also the 0 bits (whether also switching commands with value "0" are sent)
- Switch pattern: "1 of n", "x of n" or "Gray code"
  - "Gray code": Group objects 8 ... 1

speed level	8	7	6	5	4	3	2	1
0	0	0	0	0	0	0	0	0
1	0	0	0	0	0	0	0	1
2	0	0	0	0	0	0	1	1
3	0	0	0	0	0	0	1	0
4	0	0	0	0	0	1	1	0
5	0	0	0	0	0	1	1	1
6	0	0	0	0	0	1	0	1
7	0	0	0	0	0	1	0	0
8	0	0	0	0	1	1	0	0

Name of control element	Fan Switch		
Disable Off control			
Type of icons	Standard O User-o	defined	
Icon for On	*	•	
Icon for Off	L	•	
Telegram is repeated every [s]	0.5s	•	
Number of steps	3	\$	
Object type	1 bit [0/1] 1 byt	e unsigned [0255]	
Send also the 0 bits			
Switch pattern	Gray-Code	*	
Display Status	User-defined	•	
Text Off	Off		
Text step 1	Step 1		
Text step 2	Step 2		
Text step 3	Step 3	Step 3	
Text Out of range	Fault		
Enable communication object "Disable	e" 1 bit 🖌		

Control element "Fan switch"

#### **Operation and view**



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