



# QUICK SELECTION GUIDE FOR KNX AND KNX EASY DEVICES










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## INTRODUCTION

The purpose of the comparative tables in this document is to provide a tool for a quick comparison between the functions of KNX and KNX-Easy devices (Home & building Automation). The tables consider the main technical and functional features of the products and are grouped according their typology (see the summary).

Owing to the volume of data, the information contained in the following tables may contain mistakes, therefore we always recommend to check the correctness of your choices consulting the manuals and the ETS databases of the KNX or KNX-Easy devices. Gewiss assumes no responsibility for any errors in the tables and reserves the right to make technical changes at any time without any obligation of




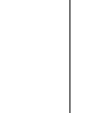



	SWITCHING ACTUATORS								
	For flush-mount		For DIN-rail mount						
Code	GW1x766	GW1x796	GW90835B	GW90741	GW90836B	GW90740A	GW90742	GWA9108	GWA9126 (combined actuator)
Version	Home automation	Building automation	Home automation	Building automation	Home automation	Building automation	Building automation	Building automation	Building automation
Picture									
Technical features									
Output channels	1	1	4	4	4	4	4	8	Max 12 (if all channels are set to manage on/off loads)
Dimensions (n. of DIN modules)	2 Chorus modules	2 Chorus modules	4	4	4	4	4	4	8
Current consumption from BUS	5mA	5mA	10mA	10mA	10mA	10mA	10mA	20mA	10mA (with auxiliary power supply)
Manual operating mode									
- mechanical									
- electronic (while the bus power supply is on)	■	■	■	■	■	■	■	■	■
- electronic (while the bus power supply is off and the auxiliary power supply is on)							■		■
Terminal blocks	screw terminals	screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals
Change-over contact	■	■							
Rated voltage	230V	230V	230V	230V	230V	230V	230V	230V	230V
Rated current (cosφ=1)	16A	16A	16A	10A	16A	16A	16A	10A	8A
Max power 230Vac <sup>(1)</sup>									
- incandescent lamps	10A	10A	1500W	1500W	3000W	3000W	3000W	2000W	1500W
- halogen lamps			1500W	1500W	3000W	3000W	3000W	2000W	1500W
- toroidal transformers			3000W		3000W	3000W	3000W	1500W	1200W
- electronic transformers			600VA	600VA	2000VA	2000VA	2000VA	1200VA	1000VA
- energy efficient lamps (compact fluorescent)			8x23W	8x23W	80x23W	80x23W	80x23W	40x23W	25x23W
- uncompensated fluorescent lamps			400VA	400VA					
- resistive load	16A	16A							
- fluorescent loads (max switchover current)	4A	4A						10AX (400A - 150µs)	8AX (300A - 150µs)
- LED lamps (230V)								40x10W	25x10W
- motors and reduction units	10A	10A							800W
Maximum dissipated power	1W	1W	4W	4W	4W	4W	5W	8W	10W
Manual operating when the BUS power supply fails							■		■
Functions									
Independent communication objects	■		■	■	■		■	■	■
Configurable local commands operating									
- different for each channel		NO		YES		NO	YES	YES (possibility of a single configuration for all the channels)	YES (depending if set to manage on/off loads or roller shutters)
Switching on/off delay		■		■		■	■	■	■
Stair lights function									
- can be stopped	■	■	■	■	■	■	■	■	■
- resettable	■	■	■	■	■	■	■	■	■
- pre-alarm	■	■	■	■	■	■	■	■	■
Flashing									
- set ON/OFF time		■		■		■	■	■	■
- set the contact status at the end of flashing				■		■	■	■	■
Configurable operating mode (NO/NC)				■		■	■	■	■
Status objects									
- on variation	■	■	■	■	■	■	■	■	■
- on request		■		■		■	■	■	■
- at power up		■		■		■	■	■	■
Configurable behaviour when the bus voltage fails / is restored		■		■		■	■	■	■
Scenes	8	8	8	8	8	8	8	8	8
- learning from bus: configurable / always enabled	NO/YES	YES/NO	NO/YES	YES/NO	NO/YES	YES/NO	YES/NO	YES/NO	YES/NO
PRIORITY function	■		■		■		■		■
BLOCK function		■		■		■		■	■
LOGICAL function									
- number of logical inputs		4		4		4	4	8	4
- operations with logical inputs		OR/NOR/AND/NAND/N OT/ XOR/XNOR		OR/NOR/ AND/NAND/NOT/ XOR/XNOR		OR/NOR/AND/NAND/NOT/ XOR/XNOR	OR/NOR/ AND/NAND/NOT/ XOR/XNOR	OR/NOR/ AND/NAND/NOT/ XOR/XNOR	OR/NOR/ AND/NAND/NOT/ XOR/XNOR
- result of the operations between logical inputs:									
a) enable/disable the command				■			■	■	■
b) new logical input with object		SWITCHING		ALL		SWITCHING	ALL	ALL	ALL
c) sent on the bus				■			■	■	■
SWITCHING ALL CHANNELS function								(simultaneous switching of all 8 channels)	(simultaneous switching of all 8 channels)
SAFETY function									
230V auxiliary voltage monitoring		■		■		■	■	■	■

■ = FUNCTION AVAILABLE

<sup>(1)</sup> FOR LOADS NOT INCLUDED IN THE TABLE, IT IS RECOMMENDED TO USE AN AUXILIARY RELAY










<sup>(2)</sup> ALTERNATIVE FUNCTIONS. IF THE PRIORITY FUNCTION IS ENABLED, THE LOGICS FUNCTION IS UNAVAILABLE AND VICEVERSA

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	ROLLER SHUTTERS ACTUATORS						
	For flush-mount		For DIN-rail mount				
Code	GW1x767	GW1x797	GW90851	GW90856	GW90852	GW90857	GWA9126 (combined actuator)
Version	Home automation	Building automation	Home automation	Building automation	Home automation	Building automation	Building automation
Picture							
Technical features							
Output channels	1	1	2	2	4	4	Max 6 (if all channels are set to manage roller shutters)
Dimensions (n. of DIN modules)	2 mod. Chorus	2 mod. Chorus	4	4	4	4	8
Current consumption from BUS	8mA	8mA	10mA	10mA	10mA	10mA	10mA (with auxiliary power supply)
Manually operated through push-buttons	■	■	■	■	■	■	■
Terminal blocks	screw terminals	screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals
Rated voltage	230V	230V	230V	230V	230V	230V	230V
Rated current (cosφ=1)	8A	8A	8A	8A	8A	8A	8A
Auxiliary voltage (optional)					■	■	■
Max power 230Vac <sup>(1)</sup>							
- motors and reduction units	6A	6A	6A	6A	6A	6A	800W
- resistive load	8A	8A	8A	8A	8A	8A	8A
Maximum dissipated power	3W	3W	4W	4W	8W	8W	10W
Functions							
Roller shutters or Venetian blinds configuration	■	■	■	■	■	■	■
Configurable local commands operating		■		■		■	■
Blinds adjustment	■	■	■	■	■	■	■
Move to position 0..255		■		■		■	■
Percentage value command for roller shutter position		■		■		■	■
Percentage value command for blind position				■		■	■
Calibration (move to)				■		■	■
Movement constraints		■		■		■	■
Run time / movement settings	■	■	■	■	■	■	■
Pause time at changing the direction		■	■	■	■	■	■
Run time different between up / down movement				■		■	■
Status objects							
- movement direction	■	■	■	■	■	■	■
- movement in progress							■
- height		■		■		■	■
- blinds				■		■	■
Automatic mode							
- operational block and/or limit of movement				■		■	■
Behaviour when the bus voltage fails / is restored / download	■ (behaviour at recovery of the voltage BUS)	■	■ (behaviour at recovery of the voltage BUS)	■	■ (behaviour at recovery of the voltage BUS)	■	■
Scenes	8	8	8	8	8	8	8
- learning from bus: configurable / always enabled	NO/YES	YES/NO	NO/YES	YES/NO	NO/YES	YES/NO	YES/NO
FORCED POSITIONING function							
- behaviour on forced positioning ON							
- behaviour on forced positioning deactivation	■		■	■	■	■	■
- behaviour on the forced positioning on BUS voltage recovery	■		■	■	■	■	■
- behaviour when the download has finished							
BLOCK function							
- block activation value (configurable)		■		■		■	■
- behaviour on start block		■		■		■	■
- behaviour on finish block				■		■	■
Control through:							
- manual operation with buttons on the device	■	■	■	■	■	■	■
- automatic command or preset				■		■	■
- manual operation with communication objects	■	■	■	■	■	■	■
Manual operation enabled/disabled when the BUS power supply fails					■ (auxiliary power supply required)	■ (auxiliary power supply required)	■ (auxiliary power supply required)
Manual operating block with communication object							
Weather alarm							
- wind alarm	■		■	■ [3 objects]	■	■ [3 objects]	■ [3 objects]
- rain alarm	■		■	■	■	■	■
- ice alarm				■		■	■
- define the priority order				■		■	■
- behaviour at the start of weather alarm	■		■	■	■	■	■
- behaviour at the end of weather alarm			■	■	■	■	■
Working hours function							

■ = AVAILABLE FUNCTION

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DIMMING ACTUATORS For DIN-rail mount									
Code	GW90854	GW90764	GW90855	GW90765	GWA9351	GWA9301	GWA9352	GWA9302	GWA9313
Version	Home automation	Building automation	Home automation	Building automation	Home automation	Building automation	Home automation	Building automation	Building automation
Picture									
Technical features									
Type of controlled load	CVD dimmer (constant voltage drive) for RGBW strips	CVD dimmer (constant voltage drive) for RGBW strips	CCD dimmer (constant current drive) for RGBW power led	CCD dimmer (constant current drive) for RGBW power led	Universal dimmer for 230V incandescent and halogen lamps, low voltage halogen lamps with winding and electronic transformers, dimmable 230V ac CFL and LED lamps	Universal dimmer for 230V incandescent and halogen lamps, low voltage halogen lamps with winding and electronic transformers, dimmable 230V ac CFL and LED lamps	Universal dimmer for 230V incandescent and halogen lamps, low voltage halogen lamps with winding and electronic transformers, dimmable 230V ac CFL and LED lamps	Universal dimmer for 230V incandescent and halogen lamps, low voltage halogen lamps with winding and electronic transformers, dimmable 230V ac CFL and LED lamps	For the command of electronic ballasts with a control voltage of 1-10V and 3 output channels for the switching of the ballast power supply
Output channels	4 x LED + 1 auxiliary relay	4 x LED + 1 auxiliary relay	4 x LED + 1 auxiliary relay	4 x LED + 1 auxiliary relay	1	1	2	2	3 x 1-10V 3 x relais 16AX
Max power	From 2.5A to 4A (depending on the wiring type and the channels used)	From 2.5A to 4A (depending on the wiring type and the channels used)	From 2.5A to 4A (depending on the wiring type and the channels used)	From 2.5A to 4A (depending on the wiring type and the channels used)	500VA	500VA	300VA (for each channel)	300VA (for each channel)	Incandescent/halogen: 3000W Toroidal transformers: 3000W Electronic transformers: 2000W Compact fluorescent: 80x23W
Dimensions (n. of DIN modules)	4	4	4	4	4	4	4	4	4
Current consumption from BUS	10mA	10mA	10mA	10mA	10mA	10mA	10mA	10mA	20mA
Manually operated through push-buttons	■	■	■	■	■	■	■	■	■
Terminal blocks	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals	extractable screw terminals
Maximum dissipated power	4W	4W	4W	4W	5W	5W	5W	5W	3W
Functions									
Choice of the way to drive the load					Leading edge / trailing edge Soft start / fast start	Leading edge / trailing edge Soft start / fast start	Leading edge / trailing edge Soft start / fast start	Leading edge / trailing edge Soft start / fast start	
Choice of the type of trigger for the load									
Manually operated with possibility to enable/disable via bus		■		■					
Input auxiliary voltage for the alarm threshold (12V±24Vdc)		■		■					
Dimming functions:									
- dimming minimum / maximum value		■		■					■
- starting condition / last value memory	■	■	■	■					■
- channel switching dimming object	■	■	■	■	■	■	■	■	■
- channel switching value object	■	■	■	■	■	■	■	■	■
- dimming all channels and scenes at the same time									
- ON and OFF delay time	■ (possibility to set delay only on OFF auxiliary relay)	■	■ (possibility to set delay only on OFF auxiliary relay)	■					■
- adjustable curve (customizable)		■		■					■
Stair lights function with/without manual OFF									
- resettable		■		■					■
- sum of the times		■		■					■
- pre-alarm	■	■	■	■	■	■	■	■	■
- stop temporization		■		■					■
- activation time set by BUS		■		■					■
Switching all channels function									
Blinking function									
SLAVE mode									
Working hours function									
Status objects									
- switching	■	■	■	■	■	■	■	■	■
- light intensity	■	■	■	■	■	■	■	■	■
Error objects:									
- overheating error		■		■					■
- auxiliary voltage error		■		■					■
- auxiliary voltage polarity reverse error		■		■					■
- 230V voltage alarm error						■			■
- overload alarm error						■			■
Logical functions									
- logical operators		OR/NOR/ AND/NAND/NOT/ XOR/XNOR		OR/NOR/ AND/NAND/NOT/ XOR/XNOR		OR/NOR/ AND/NAND/NOT/ XOR/XNOR		OR/NOR/ AND/NAND/NOT/ XOR/XNOR	OR/NOR/ AND/NAND/NOT/ XOR/XNOR
- number of logical inputs		8		8		8		8	8
- result of the operations between logical inputs:									
a) enable/disable the command		■		■		■		■	■
b) new logical input with object		■		■		■		■	■
c) send on the bus		■		■		■		■	■
Behaviour when the bus voltage fails / is restored / download	■	■	■	■	■ (behaviour at recovery of the voltage BUS)	■	■ (behaviour at recovery of the voltage BUS)	■	■
Scenes	8	8	8	8	8	8	8	8	8
- learning from bus: configurable / always enabled	NO/YES	YES/NO	NO/YES	YES/NO	NO/YES	YES/NO	NO/YES	YES/NO	YES/NO
BLOCK function									
- configurable block activation value		■		■		■		■	■
- block behaviour on BUS voltage recovery		■		■		■		■	■
- behaviour on start block		■		■		■		■	■
- behaviour on finish block		■		■		■		■	■
- behaviour on the download		■		■		■		■	■
FORCED POSITIONING function									
- behaviour on forced positioning ON	■	■	■	■	■	■	■	■	■
- behaviour on forced positioning deactivation	■	■	■	■	■	■	■	■	■
- behaviour on the forced positioning on BUS voltage recovery	■	■	■	■	■	■	■	■	■
- behaviour when the download has finished	■	■	■	■	■	■	■	■	■
LIGHT SEQUENCES functions	■	■	■	■					

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Code	COMBINED ACTUATOR	
	For DIN-rail mount	
Version	GW90730	GW9126
Picture		
<b>Technical features</b>		
<b>Input channels</b>	4 <sup>(2)</sup>	
- digital inputs		
- universal inputs	4 <sup>(2)</sup>	
<b>Output channels</b>	8	Max 12 (if all channels are set to manage on/off loads) Max 6 (if all channels are set to manage roller shutters)
- digital outputs	4 <sup>(2)</sup>	
- relay outputs	4	
<b>Dimensions (n. of DIN modules)</b>	4	8
<b>Current consumption from BUS</b>	10 mA	10mA (with auxiliary power supply)
<b>Max length for input contacts</b>	50 m	
<b>Manual operating mode</b>		
- mechanical		
- electronic (while the bus power supply is on)	■	■
- electronic (while the bus power supply is off and the auxiliary power supply is on)		■
<b>Terminal blocks</b>	extractable screw terminals	extractable screw terminals
<b>Rated voltage</b>	230V	230V
<b>Rated current (cosφ=1)</b>	10A	8A
<b>Auxiliary voltage (optional)</b>		■
<b>Max power 230Vac<sup>(1)</sup></b>		
- incandescent lamps	1500W	1500W
- halogen lamps	1500W	1500W
- toroidal transformers		1200W
- electronic transformers	600VA	1000VA
- energy saving lamps (compact fluorescent)	8x23W	25x23W
- uncompensated fluorescent loads	400VA	
- fluorescent loads (max switchover current)		8AX (300A - 150μs)
- LED lamps (230V)		25x10W
- motors and reduction units		800W
<b>Maximum dissipated power</b>	4W	10W
<b>Digital inputs functions</b>		
<b>Max number of objects per channel</b>	4	
<b>Cyclical switching</b>	■	
<b>Command sending delay</b>	■	
<b>Dimming with one/two inputs</b>	■	
<b>Roller shutters with one/two inputs</b>	■	
<b>Regulation direction for venetian blinds</b>	■	
<b>Edge</b>	■	
<b>Edge with detection of short or long press</b>	■	
<b>Scenes</b>	■	
<b>Counter</b>	■	
<b>Reset counter</b>	■	
<b>Cyclical sending</b>	■	
<b>Switching sequences</b>	■	
<b>Multiple press</b>	■	
<b>Temperature sensor input</b>	■	
<b>Value sending at switching on</b>	■	
<b>PRIORITY function</b>	■	
<b>BLOCK function</b>	■	
<b>Universal inputs functions</b>		
<b>Temperature sensor function</b>	■	
<b>Analogous input function</b>		
- current	ch.1-2	
- voltage	ch.3-4	
<b>Thermostat function</b>	ch.1-3	
<b>50 pulses counter function</b>	ch.2	
<b>Digital outputs functions [PWM for 3.3V LED]</b>		
channel switching object	■	
channel switching value object	■	
<b>Status objects</b>		
- switching	■	
- intensity light	■	
<b>Relais output functions</b>		
<b>Independent communication objects</b>	■	■
<b>Configurable local commands operating</b>		
- different for each channel	YES	YES (depending if set to manage on/off loads or roller shutters)
<b>Switching on/off delay</b>	■	■
<b>Stair light function</b>		
- can be stopped	■	■
- resettable	■	■
- pre-alarm	■	■
<b>Flashing</b>		
- set ON/OFF time	■	■
- set the contact status at the end of flashing	■	■
<b>Configurable operating mode (NO/NC)</b>	■	■
<b>Status object</b>		
- on variation	■	■
- on request	■	■
- at power up	■	■
<b>Configurable behaviour when the bus voltage falls / is restored</b>		
<b>Scenes</b>	8	8
- learning from bus: configurable / always enabled	YES/NO	YES/NO
<b>PRIORITY function</b>	■	■
<b>BLOCK function</b>	■	■
<b>LOGICAL function</b>		
- number of logical inputs	8	4
- operations with logical inputs	OR/NOR/ AND/NAND/NOT/ XOR/XNOR	OR/NOR/AND/NAND/NOT/ XOR/XNOR
- result of the operations between logical inputs:		
a) enable/disable the command	■	■
b) new logical input with object	ALL	ALL
c) sent on the bus	■	■
<b>SWITCHING ALL CHANNELS function</b>		(simultaneous switching of all channels)
<b>SAFETY function</b>	■	■
<b>230V auxiliary voltage monitoring</b>	■	■
<b>Working hours function</b>	■	■
<b>Roller shutters management functions</b>		
<b>Roller shutters or Venetian blinds configuration</b>		
<b>Configurable local commands operating</b>		
<b>Blinds adjustment</b>		
<b>Move to position 0..255</b>		
<b>Percentage value command for roller shutter position</b>		
<b>Percentage value command for blind position</b>		
<b>Calibration (move to)</b>		
<b>Movement constraints</b>		
<b>Run time / movement settings</b>		
<b>Pause time at changing the direction</b>		
<b>Tempi di movimentazione differenti tra salita / discesa</b>		
<b>Status objects</b>		
- movement direction	■	■
- movement in progress	■	■
- height	■	■
- blinds	■	■
<b>Automatic mode</b>		
- operational block and/or limit of movement	■	■
<b>Behaviour when the bus voltage fails / is restored / download</b>		
<b>Scenes</b>		8
- learning from bus: configurable / always enabled		YES/NO
<b>FORCED POSITIONING function</b>		
- behaviour on forced positioning ON		■
- behaviour on forced positioning deactivation		■
- behaviour on the forced positioning on BUS voltage recovery		■
- behaviour when the download has finished		■
<b>BLOCK function</b>		
- block activation value (configurable)		■
- behaviour on start block		■
- behaviour on finish block		■
<b>Control through:</b>		
- manual operation with buttons on the device		■
- automatic command or preset		■
- manual operation with communication objects		■
<b>Manual operation enabled/disabled when the BUS power supply fails</b>		(auxiliary power supply required)
<b>Manual operating block with communication object</b>		
<b>Weather alarm</b>		
- wind alarm		■ [3 objects]
- rain alarm		■
- ice alarm		■
- define the priority order		■
- behaviour at the start of weather alarm		■
- behaviour at the end of weather alarm		■
<b>Working hours function</b>		

■ = AVAILABLE FUNCTION

<sup>(1)</sup> FOR LOADS NOT INCLUDED IN THE TABLE, IT IS RECOMMENDED TO USE AN AUXILIARY RELAY











<sup>(2)</sup> ALTERNATIVE FUNCTION (THE SAME CHANNEL CAN BE SET TO OPERATE AS INPUT OR OUTPUT)

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Code	COMMAND DEVICES																				
	Contact interfaces						Touch push-button panel for flush-mount						Push-button panels for flush-mount								
Version	GW90834A	GW90721A	GW90833	GW90727	GW90728	GW90729	GW10741	GW10746	GWA9471	GWA9421	GW1x752	GW1x782	GW1x753A	GW1x783A	GWA9421	GW1x754A	GW1x784A	GW1x755A	GW1x785A	GW1x757	GW1x787
Picture																					
<b>Technical features</b>																					
<b>Input channels</b>																					
- digital inputs	4	4	2	2	8	8	6	6	6	6	4	4	6	6	6	6	6	6	6	4	4
- universal inputs					4																
<b>Output channels</b>																					
- digital outputs	4 outputs for LED 3.3V max 1mA	4 outputs for LED 3.3V max 1mA	2 outputs for LED 3.3V max 1mA	2 outputs for LED 3.3V max 1mA	4													1 (ON/OFF relay)	1 (ON/OFF relay)	1 (for roller shutters)	1 (for roller shutters)
- relay outputs					4																
<b>Dimensions (n. of DIN modules)</b>																					
Current consumption from BUS	Max 9 mA	Max 9 mA	Max 7 mA	Max 7 mA	Max 10 mA	Max 10 mA	Max 10 mA	Max 10 mA	Max 25 mA	Max 25 mA	Max 8 mA	Max 8 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
<b>Input voltage</b>																					
Max length for input contacts	10 m	10 m	10 m	10 m	50 m	100 m															
Terminal blocks					extractable screw terminals	extractable screw terminals												screw terminals	screw terminals	screw terminals	screw terminals
Maximum dissipated power					1W	6W												1W	1W	1W	1W
<b>Digital inputs functions</b>																					
Max number of objects per channel	1	8	1	8	4	4	1	8	1	4	1	8	1	8	1	8	1	8	1	8	4
Cyclical switching	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Command sending delay	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Dimming with one/two inputs	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Roller shutters with one/two inputs	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Regulation direction for venetian blinds	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Edge	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Edge with detection of short or long press	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Scenes	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Pulse counter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Reset counter	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Cyclical sending	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Switching sequences	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Multiple press	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Temperature sensor input	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Value sending at switching on	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
PRIORITY function	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
BLOCK function	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
<b>Universal inputs functions</b>																					
Temperature sensor function					■																
Analogue input function																					
- current					ch.1-2																
- voltage					ch.3-4																
Thermostat function					■																
50 pulses counter function					■																
<b>Digital outputs functions [PWM for 3.3V LED]</b>																					
channel switching object					■																
channel switching value object					■																
<b>Status objects</b>																					
- switching					■																
- intensity light					■																
<b>Additional functions</b>																					
Internal temperature sensor							■	■	■	■			■	■							
Sensitivity adjustment for proximity sensor									■												
Soft reduction									■												
Led	Accessory	Accessory	Accessory	Accessory	Accessory	Amber	Blue/Amber	Blue/Amber	RGB	RGB	Green/amber	Green/Amber	Green/Amber	Green/Amber	Green/Amber	Green/Amber	Green/Amber	Green/Amber	Green/Amber	RGB	RGB
Acoustic signalling							■	■	■	■											

■ = AVAILABLE FUNCTION

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Code	CLIMATE CONTROL DEVICES									
	For flush-mount						For wall-mount			
Version	GW1x764H	GW1x794H	GW1x765H	GW1x795H	GW1x769H	GW1x799H	GW1x761	GW1x791	GW1x763	GW1x793
Picture										
<b>Technical features</b>										
<b>Input channels</b>										
- for NTC external temperature sensor	2	2	2	2	2	2				
- for potential-free contact (cable length max. 10m)	1	1 <sup>(1)</sup>	1	1 <sup>(1)</sup>	1	1				
<b>Output channels (relais)</b>										
- rated voltage	250V	250V	250V	250V	250V	250V				
- rated current (cosφ=1)	5A	5A	5A	5A	5A	5A				
- change-over contact	■	■	■	■	■	■				
<b>Max power 230Vac<sup>(2)</sup></b>										
- incandescent and halogen lamps	500W	500W	500W	500W	500W	500W				
- halogen lamps with electronic transformers	100W	100W	100W	100W	100W	100W				
- halogen lamps with ferromagnetic transformers	200VA	200VA	200VA	200VA	200VA	200VA				
- energy efficient lamps (compact fluorescent)	3x23W	3x23W	3x23W	3x23W	3x23W	3x23W				
- motors and reduction units	100W	100W	100W	100W	100W	100W				
<b>Dimensions (LxHxDmm)</b>	3 Chorus modules	3 Chorus modules	2 Chorus modules	2 Chorus modules	1 Chorus module	1 Chorus module	130x92x23	130x92x23	85x95x23	85x95x23
<b>Current consumption from BUS</b>	10mA	10mA	10mA	10mA	5mA	5mA	5mA	5mA	5mA	5mA
<b>Temperature sensor</b>										
- embedded	■	■	■	■	■	■	■	■	■	■
- external wired (GW1x900 - GW10800)	■	■	■	■	■	■				
- external KNX (eg: GW1x762H)		■		■		■		(percentage ratio on the embedded temperature sensor)		(percentage ratio on the embedded temperature sensor)
<b>Humidity sensor</b>										
- embedded										
- external KNX (eg: GW1x762H)	■	■	■	■	■	■				
<b>Climate control functions</b>										
<b>Holiday function</b>	■	■	■	■	■	■	■	■	■	■
<b>Party function</b>	■	■	■	■	■	■	■	■	■	■
<b>Parameters change function from local</b>	■	■	■	■	■	■	■	■	■	■
<b>Date and hour management</b>										
- sending date and hour on bus		■		■		■		■		■
- receiving date and hour on bus		■		■		■		■		■
- summer/winter time management		■		■		■		■		■
<b>Master/independent/slave operating</b>	YES/YES/NO	YES/YES/NO	NO/YES/YES	NO/YES/YES	NO/NO/YES	NO/NO/YES	YES/YES/NO	YES/YES/NO	NO/NO/YES	NO/NO/YES
<b>Block/limited parameters from local</b>	■	■	■	■	■	■	■	■	■ (setpoint via keypad)	■
<b>Parameters change function from remote</b>										
- summer/winter time management	■	■	■	■	■	■	■	■	■	■
- HVAC mode	■	■	■	■	■	■	■	■	■	■
- HVAC setpoint mode	■	■	■	■	■	■	■	■	■	■
- operating setpoint	■	■	■	■	■	■	■	■	■	■
- current setpoint	■	■	■	■	■	■	■	■	■	■
<b>Control logic</b>										
- 2-way system control algorithm	■	■	■	■	■	■	■	■	■	■
- 4-way system control algorithm	■	■	■	■	■	■	■	■	■	■
<b>Type of control</b>										
- independent	■	■	■	■	■	■	■	■	■	■
- 2 points ON/OFF	■	■	■	■	■	■	■	■	■	■
- 2 points 0...100%	■	■	■	■	■	■	■	■	■	■
- PWM proportional integral	■	■	■	■	■	■	■	■	■	■
- Continuous integral proportional	■	■	■	■	■	■	■	■	■	■
- fancoil 3 speed ON/OFF	■	■	■	■	■	■	■	■	■	■
- fancoil 3 speed continuous control	■	■	■	■	■	■	■	■	■	■
<b>Second stage control algorithm</b>										
<b>External sensor input</b>										
- traditional	■	■	■	■	■	■	■	■	■	■
- KNX	■	■	■	■	■	■	■	■	■	■
- embedded sensor temperature correction	■	■	■	■	■	■	■	■	■	■
- floor alarm function	■	■	■	■	■	■	■	■	■	■
<b>Status objects</b>										
- measured temperature	■	■	■	■	■	■	■	■	■	■
- HVAC mode	■	■	■	■	■	■	■	■	■	■
- operating setpoint	■	■	■	■	■	■	■	■	■	■
- current setpoint	■	■	■	■	■	■	■	■	■	■
- heating / cooling	■	■	■	■	■	■	■	■	■	■
- timed-thermostat operating mode (master/independent/slave)	YES/YES/NO	YES/YES/NO	NO/YES/YES	NO/YES/YES	NO/NO/YES	NO/NO/YES	YES/YES/NO	YES/YES/NO	NO/NO/YES	NO/NO/YES
- HVAC setpoint mode	■	■	■	■	■	■	■	■	■	■
- Forced sending of temperature and humidity signalings	■	■	■	■	■	■	■	■	■	■
<b>Scenes</b>	8	8	8	8	8	8	8	8	8	8
<b>Heat/cool profile preset from ETS</b>	■	■	■	■	■	■	■	■	■	■
<b>Setpoint mode values preset</b>	■	■	■	■	■	■	■	■	■	■
<b>Humidity functions</b>										
<b>Segnalling</b>										
- measured relative humidity	■	■	■	■	■	■	■	■	■	■
- estimated relative humidity	■	■	■	■	■	■	■	■	■	■
- specific relative humidity	■	■	■	■	■	■	■	■	■	■
<b>Number of threshold</b>	5	5	5	5	5	5	5	5	5	5
<b>Number of objects per threshold</b>	1	4	1	4	1	4	1	4	1	4
<b>Dewpoint value</b>	■	■	■	■	■	■	■	■	■	■
<b>Thermal wellness indication</b>										
<b>Hourly timer functions</b>										
<b>Number max. of hourly timers</b>	7	12								
<b>Hourly timers profile pre-set from ETS</b>	■	■								
<b>Control of remote devices</b>										
<b>Number max. of remote devices</b>	7	10	4	4						
<b>displayed objects</b>										
- measured temperature	■	■	■	■	■	■	■	■	■	■
- current setpoint	■	■	■	■	■	■	■	■	■	■
- HVAC mode	■	■	■	■	■	■	■	■	■	■
- operating setpoint	■	■	■	■	■	■	■	■	■	■
- relative humidity	■	■	■	■	■	■	■	■	■	■
- summer/winter	■	■	■	■	■	■	■	■	■	■
<b>commanded objects</b>										
- HVAC mode	■ <sup>(3)</sup>	■ <sup>(3)</sup>	■	■	■	■	■	■	■	■
- operating setpoint	■ <sup>(3)</sup>	■ <sup>(3)</sup>	■	■	■	■	■	■	■	■
- Summer/Winter	■	■	■	■	■	■	■	■	■	■
<b>Digital inputs functions</b>										
<b>Number max. objects per channel</b>		1		1		1				
<b>Cyclical switching</b>	■	■	■	■	■	■	■	■	■	■
<b>Dimming with one/two inputs</b>	■	■	■	■	■	■	■	■	■	■
<b>Roller shutters with one/two inputs</b>	■	■	■	■	■	■	■	■	■	■
<b>Edge</b>	■	■	■	■	■	■	■	■	■	■
<b>Edge with detection of short or long press</b>	■	■	■	■	■	■	■	■	■	■
<b>Scenes</b>	■	■	■	■	■	■	■	■	■	■
<b>Window contact function</b>	■ (ch.1 only)	■	■ (ch.1 only)	■	■ (ch.1 only)	■	■	■	■	■
<b>Relais output functions</b>										
<b>Independent communication objects</b>										
<b>Stair light function</b>										
- can be stopped	■	■	■	■	■	■	■	■	■	■
- resettable	■	■	■	■	■	■	■	■	■	■
- pre-alarm	■	■	■	■	■	■	■	■	■	■
<b>Stus objects</b>										
- on variation	■	■	■	■	■	■	■	■	■	■
- on request	■	■	■	■	■	■	■	■	■	■
- at switch on	■	■	■	■	■	■	■	■	■	■
<b>Configurable behaviour when the bus voltage fails / is restored</b>										
<b>PRIORITY function</b>										
<b>Heat/cool valve command</b>	■	■	■	■	■	■	■	■	■	■



■ = AVAILABLE FUNCTION

<sup>(1)</sup> THE INPUT FOR THE EXTERNAL NTC TEMPERATURE SENSOR CAN BE PROGRAMMED , AS AN ALTERNATIVE, TO WORK AS A POTENTIAL-FREE CONTACT

<sup>(2)</sup> FOR LOADS NOT INCLUDED IN THE TABLE, IT IS RECOMMENDED TO USE AN AUXILIARY RELAY

<sup>(3)</sup> THE COMMAND OBJECTS ARE MATCHED TO THE TIMER PROFILE

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	MOTION / LIGHT INTENSITY DETECTORS	
	For flush-mount	
Code	GW1x756	GW1x786
Version	Home automation	Building automation
Picture		
Technical features		
Dimensions	2 Chironi modules	2 Chironi modules
Current consumption from BUS	SMA	SMA
Functions		
Cyclical time	■	■
Recovery time	■	■
Conditional detection	■	■
Twilight threshold adjustment	Local trimmer	Local trimmer/KNX parameter
Trimmer can be isolated		■
Object twilight threshold overrun		■
Sending object for start movement (KNX parameters)		■
- cyclical		■
- dependent/independent from twilight sensor		■
Format of the movement object		■
- 1 bit	■	■
- 1 byte		■
- scene		■
Value for start movement		■
Value for end movement		■
Restore		■
Status objects		■
- switching	■	■
Safety pause		■
Sending end movement with value "0" restore object		■
Auxiliary objects		■
BLOCK functions		■
- block object initial value		■
- block activation value		■
- # block activation during cyclical period		■

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