

GAMMA wave and Synco living in combination

1 The Synco living central apartment unit

Heart and brain of the system. This unit offers simple control and monitoring of the functions of up to 12 rooms on a single display.

**2 The Synco living room unit**

Measures room temperature and allows settings entered in the central apartment unit, such as temperature and operating parameters, to be adjusted for individual rooms. The comfort mode can be extended by a simple push of the button.

**3 The Synco living heater control actuator**

Measures room temperature - wirelessly receives the preset temperature for the respective room from the central apartment unit and regulates the room temperature by adjusting the heater valve. It can also regulate up to 5 further heaters per room, thus ensuring an even temperature between the radiators.

**4 The Synco living room temperature sensor**

Measures the room temperature and wirelessly communicates this to the central apartment unit.

**5 The Synco living heating circuit controller**

Compares the actual and set values wirelessly transmitted by the central apartment unit and regulates the required temperature by adjusting the valve settings. Two heating circuit controllers are available for either 2 or 8 heating circuits.

**6 DELTA reflex smoke detector**

Immediately detects the smoke emitted by fires and signals the alarm. Wirelessly transmits the alarm to the Synco living central apartment unit. The central apartment unit can then transmit the alarm to one or more recipients via SMS, pager or email.

**7 The GAMMA wave radio integration system for light and blinds**

All GAMMA wave products can be integrated. This allows quick and convenient control of your light and blinds, either centrally, locally from individual rooms, or as a preset scene. It goes without saying that GAMMA wave components can also be automated e.g. via switching programs or using your simulated presence settings.

**8 The GAMMA wave door/window contact**

Monitors windows, doors and gates, etc. and transmits relevant data to the central apartment unit, e.g. if an oil tank is running low. In the event of any deviation from preset values you can program the system to signal you in a variety of ways. High comfort, low energy.



You will find more information on Synco living at: <http://www.siemens.de/syncoliving>



GAMMA wave Radio System

Introduction

GAMMA wave – the multifunctional system

Enjoy all the advantages of a modern building management system without the need for additional cable installation – the new GAMMA wave radio system makes it possible.

Sensors, actuators, etc. do not require any additional cable installation. This means that this type of radio transmission is particularly suitable for renovation work, the expansion of existing systems and all types of new installations. And all complete with absolutely failsafe and problem-free transmission.

Furthermore:
GAMMA wave is a unique bi-directional radio system – this means that the products and components can be both transmitter and receiver.

And:

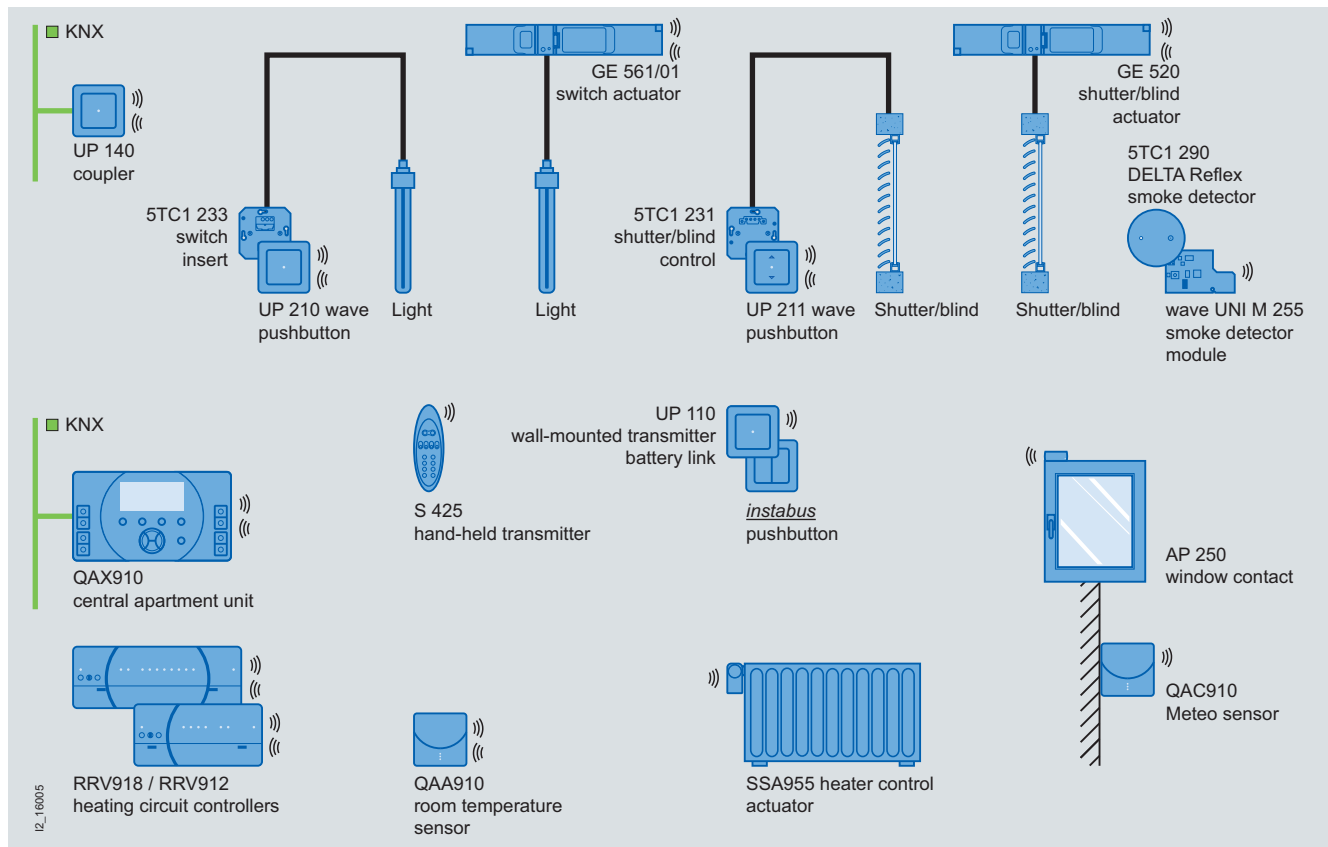
GAMMA wave is based on the new, uniform standard for building management systems: KNX in the 868 MHz range.

Services

Services offered through third parties.

Consumption data acquisition and emergency call systems

Products from other Siemens ranges or other manufacturers on the basis of KNX standards.



Due to its implementation of forward-looking technology, the "wave" device range is ideally suited for the retrofitting and modification of room control functions in existing buildings.

These products offer simple installation and commissioning, thus enabling the wireless remote control of switching, dimming and shutter/blind/scene functions.

The system operates in the 868 MHz fail-safe frequency band that is reserved for safety and system applications. A sensor can control an unlimited number of actuators within its range (e.g. closed residential unit).

As well as the wave pushbutton for lighting control, the product range includes the wave shutter/blind pushbuttons for shutter/blind control together with a range of wall-mounted transmitters, hand-held transmitters, door/window contacts and smoke detectors.

The wave pushbuttons and wave shutter/blind pushbuttons must be used in combination with universal dimmer sys inserts, switch sys inserts or shutter/blind control sys inserts. This enables the local operation and remote control of the inserts located beneath the pushbuttons, as well as the remote control of additional universal dimmer, switch dimmer or shutter/blind control inserts linked via KNX radio.

Single or double *instabus* pushbuttons are snapped onto wave wall-mounted transmitters as operator interfaces. In accordance with their intended purpose, pushbutton rockers enable the remote control of universal dimmer sys inserts, switch sys inserts or shutter/blind control sys inserts, which are equipped with wave pushbuttons or wave shutter/blind pushbuttons.

The device contact units are fitted with fixing claws and have a maximum mounting depth of 32 mm. This greatly facilitates mounting standard flush-mounting switch boxes.

GAMMA wave flush-mounting combinations

Operator interfaces	sys pushbuttons ¹⁾	UP 210 wave pushbuttons	sys shutter/blind pushbuttons ¹⁾	UP 211 wave shutter/blind pushbuttons	<i>instabus</i> pushbuttons, single, double
Device inserts					
Universal dimmer sys inserts	✓	✓	--	--	--
sys switching inserts	--	✓	--	--	--
Shutter/blind control sys inserts	--	--	✓	✓	--
UP 110 wall-mounted transmitters	--	--	--	--	✓
"Batterie" wave	--	--	--	--	✓
UP 110 wall-mounted transmitters	--	--	--	--	✓
230 V wave	--	--	--	--	✓
UP 560 wall-mounted transmitters	--	--	--	--	✓
"Aktor" 230 V wave	--	--	--	--	✓

¹⁾ See Catalog ET D1.

Previously

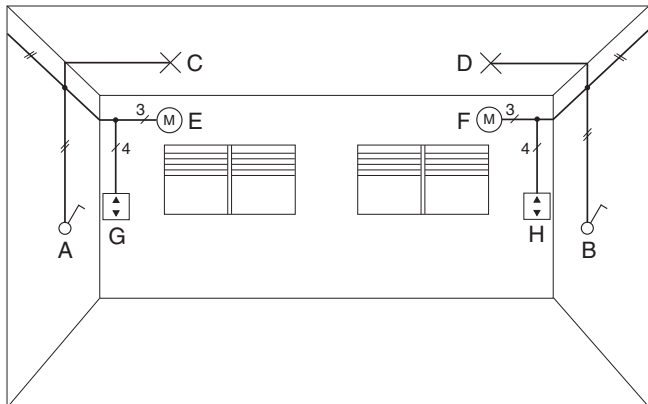
Lighting and shutter/blind control of a conventional installation

Example of a conventional installation with lighting and electrically operated shutters/blinds.

- Light (C) can only be switched with switch (A)
- Light (D) can only be switched with switch (B)
- Shutter/blind (E) can only be moved with switch (G)
- Shutter/blind (F) can only be moved with switch (H)

Disadvantages

- Inflexible
- No convenience (each light must be switched individually)



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Now

Lighting and shutter/blind control with GAMMA wave ("bi-directional" radio system)

Modification of the installation for shared operation of lighting and shutters/blinds from various operating points.

Replacement of conventional switch inserts (A, B) with

- Universal dimmer sys inserts
- DELTA UP 210 wave pushbuttons

Replacement of conventional shutter/blind switches (G, H) with

- Shutter/blind control sys inserts
- DELTA UP 211 wave shutter/blind pushbutton

With this switch you can:

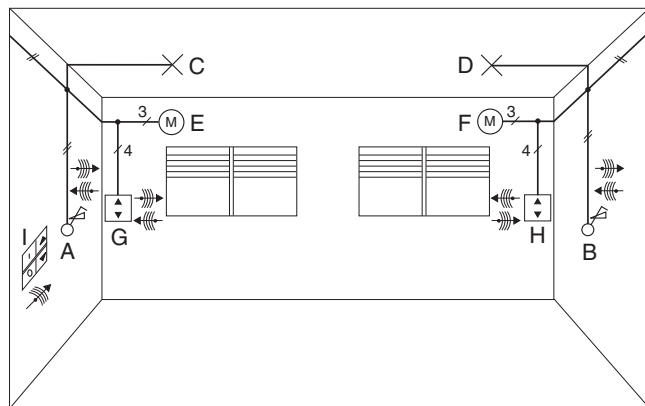
- Dim lights C and D from A and/or B
- Operate shutters/blinds E and F from G and/or H

For additional operation of the lights and shutters/blinds

- A UP 110 wall-mounted transmitter "Batterie" wave (I) with mounted double *instabus* pushbutton must be installed

Advantages

- Flexible
- Greater operational ease
- Supports group formation
- Few devices required/lower costs
- Simple and clean retrofitting – no structural alterations required



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