UP 220/21 I/O Pushbutton Interface
UP 220/31 I/O Pushbutton Interface – Small, Universal and Independent

GAMMA Building Management Systems

Pushbutton interfaces are primarily used to connect conventional switches or push-buttons to their inputs and to transfer pushbutton or switch operations through the bus and to control status LEDs.

■ **The simple solution for KNX communication**

Pushbutton interfaces provide an ideal option to use KNX actuators for operating conventional switches and pushbuttons, especially in countries where pushbuttons and socket outlet designs are equipped with a bus pushbutton. These interfaces enable the use of various applications: conventional operating points for room functions are connected to KNX, gateways for transmitting digital signals, e.g. window contact, fault messages, to KNX. Status LEDs can also be controlled in conventional circuit breaker inserts.

Highlights

■ Suitable for standard UP socket outlet thanks to their low mounting height

■ Connecting cables up to 10 m for connecting remote operating points

■ Comprehensive range of applications for universal use

■ High output current for directly controlling status LEDs

Answers for infrastructure.

SIEMENS

Input Devices

Binary input devices

Technical specifications

	Type	Description
	UP 220/21 UP 220/31	**UP 220/21 and UP 220/31 I/O pushbutton interfaces**

- Equipped with 2 or 4 inputs/outputs each configurable for potential-free contacts or for controlling an LED
- Generates scanning voltage for floating contacts
- Output current of up to 2 mA per output for controlling an LED
- 4-wire or 8-wire plug-in cable set, 280 mm long, extendable to a max. of 10 m
- Selectable programs for scanning and transmitting contact switching states or for detecting switching/pushbutton actuations and transmitting switching, dimming or solar protection control commands
- Configurable contact type per input or pair of inputs (NC contact/NO contact)
- Configurable minimum duration for long button press
- Configurable function toggle, switch On/Off, switch On/Off and dim (dimming with stop telegram), 1-bit scene control, 8-bit scene control, solar protection control, value transmission (8-bit, 16-bit or 32-bit), impulse counting (8-bit, 16-bit or 32-bit), 1-button sequenced switching group control, or 1-button multi-touch control (multiple output control)
- On or Off switching or value transmission at either a rising and/or falling edge
- Distinction between short and/or long button press for On/Off switching or value transmission

- Short and long button press for ON/OFF, brighter/darker for dimming or UP/DOWN and adjustment of slats for shutter/blind control
- Configurable event-controlled and/or cyclical transmission of object value
- Configurable transmission of object value in case of bus voltage recovery
- Threshold surveillance of impulse counting, with threshold configurable via parameter or object, with reset of the impulse counter via object
- Configurable LED function per output: Continuously On, On/Off/flashing (slowly, medium, fast)
- Configurable object for a logic AND or OR operation per output
- Configurable status object per output
- Configurable blocking object per input/output
- Bus-powered electronics
- Integrated bus coupling unit, bus connection via bus terminal, for insertion in flush-mounting switch and socket boxes, 60 mm in diameter and 40 mm deep
- Dimensions (L x W x D): 42 mm x 42 mm x 8.5 mm (in the area of the bus terminal, 11 mm high)

Selection and ordering data (Dated 06/2010)

	Type	Version	DT	Order No.	PU	PS*/ P. unit	PG	Weight per PU approx.
					Unit(s)	Unit(s)		kg
	UP 220/21	**UP 220/21 I/O pushbutton interfaces**[1] 2 inputs/outputs	A	**5WG1 220-2AB21**	1	1	030	0.022
	UP 220/31	**UP 220/31 I/O pushbutton interfaces**[1] 4 inputs/outputs	A	**5WG1 220-2AB31**	1	1	030	0.022

5WG1 220-2AB31

[1] Recommendation: LED light insert, for switches and pushbutton inserts, red, 1.5 V DC, 2 mA (order no.: 5TG7 318).

* You can order this quantity or a multiple thereof.