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System and Communication Devices

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For further technical information
please refer to the GAMMA building
management systems manual or visit
our Web site at:

<http://www.siemens.de/gamma>

System and Communication Devices

Bus coupling units

Selection and ordering data

		Order No.	Price	PG	Weight 1 item	PS*/ P. unit
			1 item		kg	Items
Installation in the flush-mounting box						
	UP 110	Flush-mounting device for installing in mounting boxes. Enables the following bus terminals to be connected to the bus line: pushbuttons, room temperature controllers, display units, interfaces, etc. Modular width (mm): 71 with screw fixing: mounting depth (mm): 27				
		5WG1 110-2AB03		030	0.060	1
		with screw and claw fixing: mounting depth (mm): 19 5WG1 294-8AB01 fixing clips must be order separately.				
		5WG1 110-2AB11		030	0.066	1
	Fixing clip	Enables the anti-theft screws of bus terminals such as pushbuttons, room temperature controllers etc. to be used on the UP 110 bus coupling units with claw fixing. 2 fixing clips are required per bus coupling unit.				
	5WG1 294-8AB01		030	0.008	2	
	UP 114	Flush-mounting device for installing in mounting boxes. (Basis is the BCU 2.0.) Modular width (mm): 71, with screw fixing: mounting depth (mm): 16				
		5WG1 114-2AB02		030	0.060	1
	Mounting bracket for NEMA wall box	 5WG1 114-2CB02		030	0.063	1
DELTA UP 116 bus coupling units						
Depending on the model (single or double) it is possible to use single or series rockers from the DELTA product ranges in various versions. In addition there are two LEDs that can be used either for orientation lighting or for status indication. The LEDs are supplied from the bus voltage. On the version with intermediate position, the rockers can be actuated at the top and bottom (two switching points per rocker); on the version with pushbutton position, the rockers can be actuated at the bottom only (one switching point per rocker). Modular width (mm): 71 mounting depth (mm): 32 Rocker from the DELTA product ranges can be plugged on the DELTA UP 116 bus coupling unit.						
	intermediate position,	single		030	0.080	1
		double		030	0.080	1
	pushbutton position,	single		030	0.080	1
		double		030	0.080	1
						
Accessories						
	UP 196 paint shield	Suitable for all flush-mounting bus coupling units, flush-mounting DELTA bus coupling units without user interface, and all flush-mounting actuators with user interface. With user interface.				
		5WG1 196-2AB01		030	0.003	10

Selection and ordering data

Dimensions	Color	Order No.	Price	PG	Weight 1 item	PS*/ P. unit
H × W × D mm			1 item		kg	Items

Modular installation devices



N 148, RS 232

The interface supports connection of a PC for addressing, parameterization, visualization, logging and diagnostics of the bus devices.

Transfer rate: 9600 baud.

Width: 3 MW (1 MW = 18 mm)

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④ **5WG1 148-1AB02**

030

0.172

1



N 148/04, RS 232 with selectable protocol

The N148/04 RS 232 interface supports connection of a personal computer or another device for addressing, parameterization, visualization, logging and diagnosis of the bus devices. The linking process may be carried out according to the standard or the FT1.2 protocol.

Transfer rate: 9600 baud (19200 baud with FT1.2)

Width: 3 MW (1 MW = 18 mm)

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④ **5WG1 148-1AB04**

030

0,178

1



N 148/11, USB ^{NEW}

The USB interface enables connection of a PC to the KNX *EIB* over the integrated USB socket (type B) for the addressing, parameterization, visualization, protocolling and diagnostics of the bus device.

Transfer rate: USB 1.1 speed

Width: 1 MW (1 MW = 18 mm)

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④ **5WG1 148-1AB11**

030

1

Installation in the flush-mounting box

The UP 110 and UP 114 bus coupling unit and the corresponding frame must be ordered separately.

RS 232

The interfaces support connection of a PC for addressing, parameterization, visualization, logging and diagnostics of the bus devices.

Data transfer rate: 9600 baud.

DELTA profil UP 146

65 × 65 × 42

pearl gray
titanium white
anthracite

5WG1 146-2AB01
5WG1 146-2AB11
5WG1 146-2AB21

030
030
030

0.088
0.088
0.088

1
1
1



DELTA style UP 146

65 × 65 × 42

silver

5WG1 146-2AB71

030

0.088

1

DELTA ambiente UP 142

65 × 65 × 42

arctic white
cosmos gray
royal blue

5WG1 142-2AB01
5WG1 142-2AB11
5WG1 142-2AB21

030
030
030

0.088
0.088
0.088

1
1
1



USB interface ^{NEW}

The USB interface enables connection of a PC to the KNX *EIB* over the integrated USB socket (type B) for the addressing, parameterization, visualization, logging and diagnostics of the bus device. The linking process may be carried out according to the standard or the FT1.2 protocol.

Transfer rate: 9600 baud (19200 baud with FT1.2)

DELTA profil UP 146E

65 × 65 × 42

pearl gray
titanium white
anthracite
silver

5WG1 146-2EB01
5WG1 146-2EB11
5WG1 146-2EB21
5WG1 146-2EB71

030
030
030
030

0.088
0.088
0.088
0.088

1
1
1
1



DELTA style UP 146E

65 × 65 × 42

titanium white

5WG1 146-2EB11

030

0.088

1



DELTA ambiente UP 142E

65 × 65 × 42

arctic white
cosmos gray
royal blue

5WG1 142-2EB01
5WG1 142-2EB11
5WG1 142-2EB21

030
030
030

0.088
0.088
0.088

1
1
1










* You can order this quantity or a multiple thereof.

System and Communication Devices


Power supply units, chokes, line/backbone couplers

Selection and ordering data

	MW	Order No.	Price	PG	Weight 1 item	PS*/ P. unit
	(1 MW = 18 mm)		1 item		kg	Items
Modular installation devices						
	N 125/01 power supply, 160 mA The power supply unit with integrated choke provides and monitors the system power supply required for the <i>instabus</i> KNX <i>EIB</i> . At least one N 125 power supply unit is required for each bus cable. Rated values: Input voltage: 120 ... 230 V AC, 50/60 Hz Output voltage: 29 V DC Output current: 160 mA	4	5WG1 125-1AB01	030	0.240	1
	N 125/11 power supply, 320 mA The power supply unit with integrated choke provides and monitors the system power supply required for the <i>instabus</i> KNX <i>EIB</i> . At least one N 125 power supply unit is required for each bus cable. Rated values: Input voltage: 120 ... 230 V AC, 50/60 Hz Output voltage: 29 V DC Output current: 320 mA	4	5WG1 125-1AB11	030	0.230	1
	N 125/21 power supply, 640 mA The power supply unit with integrated choke provides and monitors the system power supply required for the <i>instabus</i> KNX <i>EIB</i> . One N 125 power supply unit is required for each bus cable. If an additional line is supplied over a separate N 120 choke, the output voltage can be delivered without choking. Rated values: Input voltage: 120 ... 230 V AC, 50/60 Hz Output voltage: 29 V DC Output current: 640 mA	4	5WG1 125-1AB21	030	0.240	1
	N 123 power supply (120 V AC 320 mA) The power supply unit provides and monitors the system power supply required for the <i>instabus</i> <i>EIB</i> . At least one N 123 power supply unit is required for each bus cable. These units can only be used in conjunction with the N 120 choke. The choke and power supply unit must be linked through the same data rail and thus mounted on the same mounting rail in the distribution board.		④ 5WG1 123-1CB01	030	0.775	1
	N 120 choke, 500 mA The choke prevents the N 123 and N 125/21 power supply units from short-circuiting the data telegrams on the bus line.	2	④ 5WG1 120-1AB01	030	0.105	1
	N 140 line/backbone couplers The N 140/03 line/backbone coupler provides a data connection between two separate KNX <i>EIB</i> bus lines, but it also isolates them electrically. It can be used as a line coupler, a backbone coupler or a repeater (line amplifier), both in existing KNX <i>EIB</i> networks (e.g. as replacement for an N 140/02 or N 140/01 line coupler) as well as in new KNX <i>EIB</i> networks. Line couplers, backbone couplers and repeaters are equipped with the same hardware and therefore have the same order number. Simultaneously with the assignment of the physical address by means of the <i>EIB</i> Tool Software, the coupler function is automatically determined.					
	N 140/03	1	④ 5WG1 140-1AB03	030	0.060	1
	N 140/13  Connection of primary and secondary lines over bus terminal.	2	5WG1 140-1AB13	030	0.085	1

System and Communication Devices

Power supply units, chokes, line/backbone couplers

MW	Order No.	Price	PG	Weight 1 item	PS*/ P. unit
(1 MW = 18 mm)		1 item		kg	Items
Modular installation devices					
 <p>N 146 IP router</p> <p>The IP router connects bus lines or bus areas using a fast Internet protocol (IP) data network. The Ethernet connection is accomplished through a RJ45 socket. The bus connection is realized through a terminal block. To be operated, the IP router additionally requires 24 V AC/DC, which is fed in through a second terminal block.</p> <p>The IP router utilizes the <i>EIBnet/IP</i> standard to route KNX <i>EIB</i> telegrams between lines and enables parallel access from a PC. Used together with a LAN modem, it is also possible to remotely access a KNX <i>EIB</i> installation.</p> <p>The IP router offers the following features:</p> <ul style="list-style-type: none"> • Easy connection to higher-level systems by using the Internet protocol (IP) • Direct access from any point in the IP network to the KNX <i>EIB</i> installation (<i>EIBnet/IP</i> tunneling) • Fast communication between KNX <i>EIB</i> lines, KNX <i>EIB</i>-areas and systems (<i>EIBnet/IP</i> routing) • Communication between buildings and real estate • Filtering and forwarding of telegrams according to <ul style="list-style-type: none"> - physic address - Group address • LED displays for <ul style="list-style-type: none"> - Availability - KNX <i>EIB</i> communication - IP communication. 					
2	Ⓢ 5WG1 146-1AB01		030	0,126	1


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System and Communication Devices

Connectors

Selection and ordering data

	MW	Order No.	Price	PG	Weight 1 item	PS*/ P. unit
	(1 MW = 18 mm)		1 item		kg	Items
Modular installation devices						
	REG 191/01, 2-fold (discontinued model)					
	A connector of low design for positioning under distributor covers. Creates a connection between data rails and the bus cable. As many as 8 bus cables can be connected through two 193 bus terminals (must be ordered separately).					
	1	®	5WG1 191-5AB01		030	0.045 1
	REG 191/11, 2 x 2-fold (discontinued model)					
	Same as the REG 191/01 connector, except that there are two additional connections for two extra-low voltage terminals (must be ordered separately). The unchoked voltage can thus be picked off the data rail.					
	1	®	5WG1 191-5AB11		030	0.045 1