



baelz 6200-192-4

baelz 6200

MICROPROCESSOR SYSTEM

The standard controller for major BACS projects

For regulation, control and monitoring of industrial and domestic processes.

ADVANTAGES AT A GLANCE

- Multiprocessor technology
- modular system - expandable at any time
- easy operation with user-friendly menus
- several installation variants
- various operating interfaces selectable
- multi-circuit control system - up to 16 control loops
- integrated PLC control without programming device
- monitoring and reducing energy consumption

Technical specifications Microprocessor system baelz 6200 ...

Control loops/circuits	max. 16
Controller type	freely selectable using plug-in cards
Analog inputs	NTC: 3.11 (-40°C to +60°C); 3.12 (0°C to +60°C); 3.13 (0°C to +140°C) PT100: 2.21 (-40°C to +60°C); 2.4 (0°C to +300°C); 2.49 (-40°C to +12°C) Humidity: 5.4 (0 to 100% rh) 0/4 ... 20 mA, Re = 5.9 Ω; 0/2 ... 10 V, Re = 160 kΩ; Potentiometer: 100 Ω ... 5 kΩ
Analog output	0/4...20 mA, Re = 500 Ω; 0/2...10 V, I _{max} = 5 mA
Digital input	Re = 4 kΩ (low = 0 VDC; high = 15...24 VDC)
Digital input and transducer supply voltage	24 VDC
Connection	Screw-type terminals, 9-pin female connector RS232
Interface	RS485 Modbus-RTU
Display	LCD with 8x40 characters for plain text display *
Housing	plastic
Power supply (depending on the type)	230 V / (special voltages on request: 115 V / 24 V), -15% / + 10%, 50/60 Hz
Relay	with potential-free contact; Switching capacity 250 VAC / 3 A; Spark suppressor 10 nF + 100 Ω
Ambient temperature (°C)	Operating: 0...50; Transport / Storage: -20...+ 60
Ambient humidity	5...90% rel. hum. (non-condensing)
Function keyboard for configuration, operation and parameterization on site *	
Up to 16 LEDs for displaying binary signals (relays 1-16) with labeling	
Battery for data backup in case of power failure	
Software available in the following languages: German, English, French, Flemish, Italian, Dutch	

* except for 6200-i-3

Options / notes	Remarks
Ext. Power supply unit Order No. 6208-012 is required if more than 1 D/I-D/O card(s) are inserted.	
Only one M-Bus card baelz 6200-M can be equipped per device. Order No. 6200-101	
Software for baelz 4614 control system on request.	
baelz 4615 remote control and parameter expression program on request.	
Pre-wiring of the controller: surcharge baelz 3572	only for 6200-W4

Type	Slots for max. ... cards	Mounting version
6200-i-3...	6 *	Switch cabinet interior installation
6200-192-4...	4	Panel front installation
6200-9,5-5...	5	Panel front installation
6200-19-10...	10	Panel front installation
6200-19-20...	20	Panel front installation
6200-W4...	4	Wall-mounted unit

* for 4 or more cards: with additional device including flat ribbon bus cable approx. 0.15 m

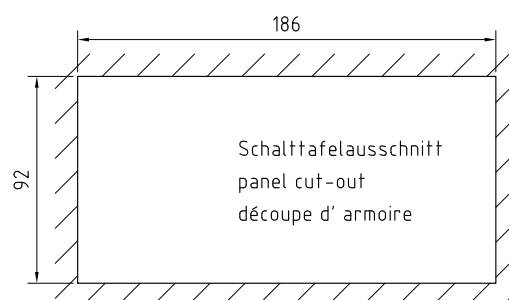
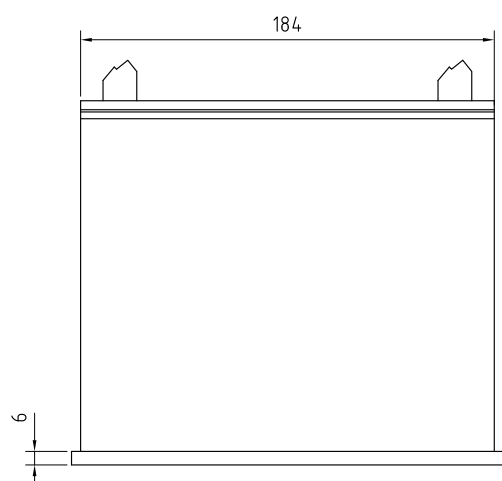
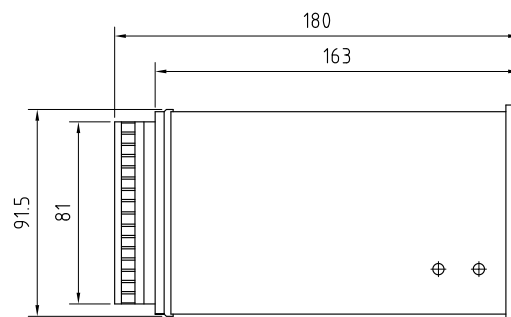
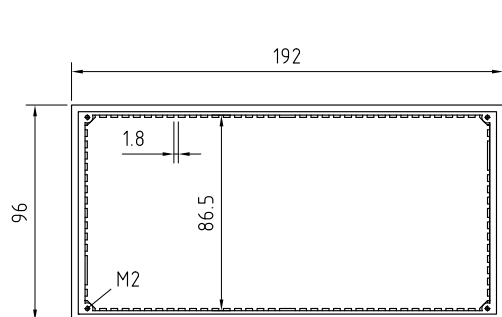
Number of cards and weight microprocessor system baelz 6200 ...					
Type	Number of cards	Weight approx. (kg)	Type	Number of cards	Weight approx. (kg)
6200-i-3 / 1X	1	1,4	6200-19-20 / 1X	1	4,6
6200-i-3 / 2X	2	1,6	6200-19-20 / 2X	2	4,8
6200-i-3 / 3X	3	1,8	6200-19-20 / 3X	3	5,0
6200-i-3 / 4X	4 *	3,2	6200-19-20 / 4X	4	5,2
6200-i-3 / 5X	5 *	3,4	6200-19-20 / 5X	5	5,7
6200-i-3 / 6X	6 *	3,6	6200-19-20 / 6X	6	5,9
6200-192-4 / 1X	1	1	6200-19-20 / 7X	7	6,1
6200-192-4 / 2X	2	1,2	6200-19-20 / 8X	8	6,3
6200-192-4 / 3X	3	1,4	6200-19-20 / 9X	9	6,8
6200-192-4 / 4X	4	1,6	6200-19-20 / 10X	10	7,0
6200-9,5-5 / 1X	1	1,7	6200-19-20 / 11X	11	7,2
6200-9,5-5 / 2X	2	1,9	6200-19-20 / 12X	12	7,4
6200-9,5-5 / 3X	3	2,1	6200-19-20 / 13X	13	7,9
6200-9,5-5 / 4X	4	2,3	6200-19-20 / 14X	14	8,1
6200-9,5-5 / 5X	5	2,8	6200-19-20 / 15X	15	8,3
6200-19-10 / 1X	1	2,5	6200-19-20 / 16X	16	8,5
6200-19-10 / 2X	2	2,7	6200-19-20 / 17X	17	9,0
6200-19-10 / 3X	3	2,9	6200-19-20 / 18X	18	9,2
6200-19-10 / 4X	4	3,1	6200-19-20 / 19X	19	9,4
6200-19-10 / 5X	5	3,6	6200-19-20 / 20X	20	9,6
6200-19-10 / 6X	6	3,8	6200-W4 / 1X	1	3,5
6200-19-10 / 7X	7	4	6200-W4 / 2X	2	3,7
6200-19-10 / 8X	8	4,2	6200-W4 / 3X	3	3,9
6200-19-10 / 9X	9	4,7	6200-W4 / 4X	4	4,1
6200-19-10 / 10X	10	4,9			

* for 4 or more cards: with additional device including flat ribbon bus cable approx. 0.15 m

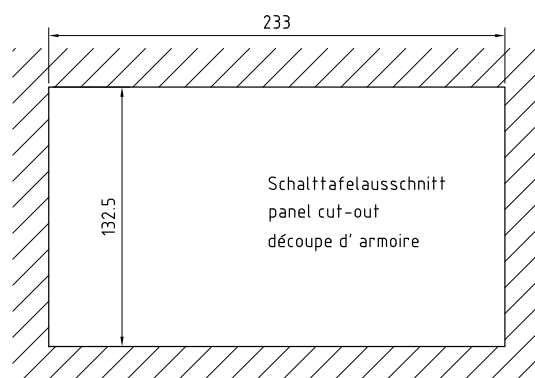
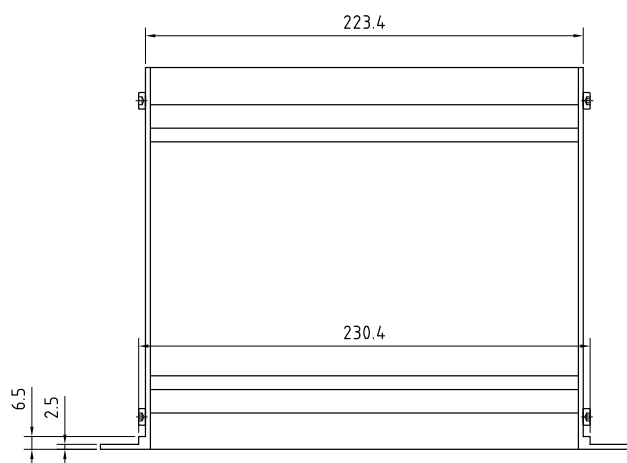
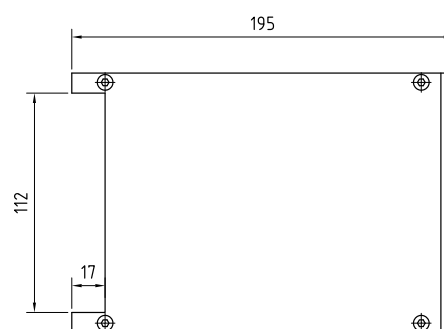
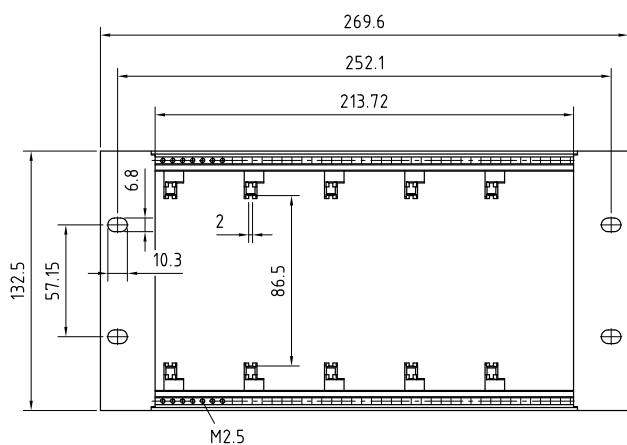
Note: Other card configurations are possible if required.

Please note the following table.

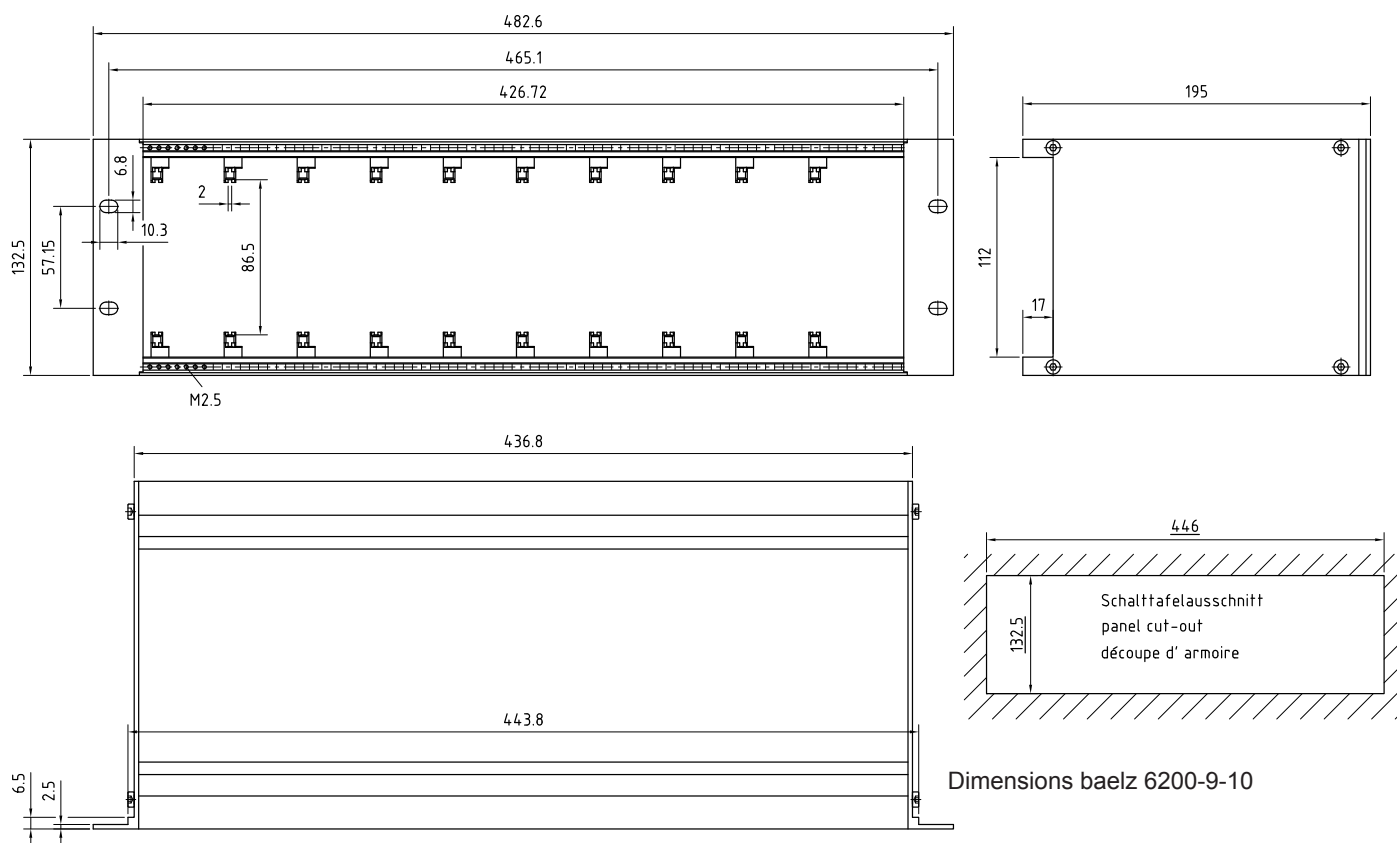
Type	Slot 1, only for cards: B, BAA	Slots only for cards BENT, BEAANT, DENT	Remaining slots, only for cards: BE, BEAA, DE, DA, M
6200-i-3...		4	
6200-192-4...		-	
6200-9,5-5...		5	
6200-19-10...		5 + 9	
6200-19-20...		5, 9, 13, 17	
6200-W4...		-	



Dimensions baelz 6200-192-4

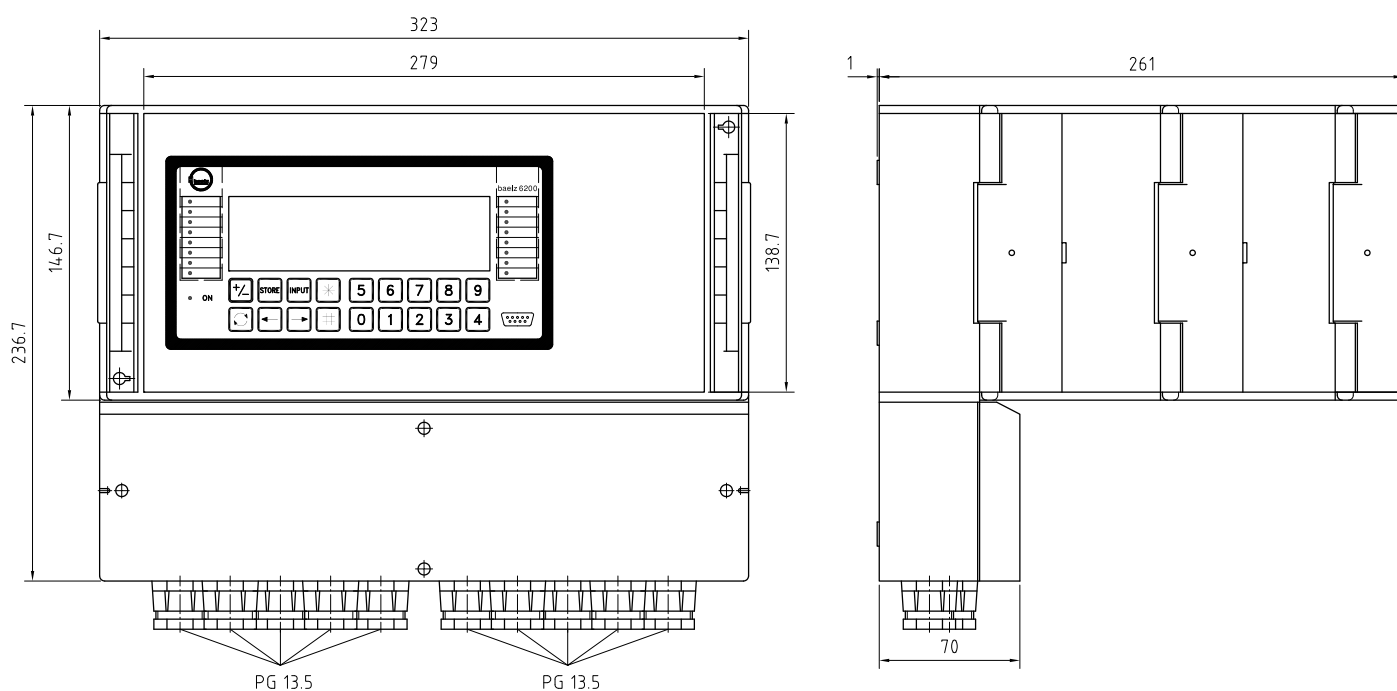


Dimensions baelz 6200-9,5-5



Type	Dimensions WxHxD (mm)	Panel controller cut-out WxH (mm)
6200-19-10...	482,6 x 132,5 x 195	446 x 132,5
6200-19-20...*	482,6 x 265,9 x 195	446 x 265,9

* The housing of the 6200-19-20 differs only in width from the 6200-19-10 housing.



Cards for baelz 6200 microprocessor system							
Type	Description	Characteristics	Weight approx. (kg)	Relay	Inputs	Analog-outputs	Modem-connection
6200-B	Basic card	with microprocessor 65S02, microcontroller, SCC, ROM and RAM, RS485 connection, clock, battery for data backup in case of power failure, including sub-card 6200-S (price including standard software 4611)	0.2	4 (2 switches, 2 NO contacts)	4 digital, 4 analog	-	not prepared for modem connection
6200-BAA	Basic card	with microprocessor 65S02, microcontroller, SCC, ROM and RAM, RS485 connection, clock, battery for data backup in case of power failure, including sub-card 6200-S (price including standard software 4611)	0.2	3 (1 switch, 2 NO contacts)	4 digital, 4 analog	2 analog 0/2 ... 10V or 0/4 ... 20 mA	No
6200-BAA.B	Basic card	with microprocessor 65S02, microcontroller, SCC, ROM and RAM, RS485 connection, clock, battery for data backup in case of power failure, including sub-card 6200-S (price including standard software 4611)	0.2				on front card, BEAA (NT)
6200-S	Subcard	Microprocessor 65S02, SCC, RAM, EPROM (price includes standard software 4611)	0.1	-	-	-	no modem connection on basic card
6200-BE	Supplementary card	Microcontroller	0.2				No
6200-BENT	Supplementary card	Microcontroller	0.5				
6200-BE.C	Supplementary card	Microcontroller	0.2	4 (2 switches, 2 NO contacts)	4 digital, 4 analog	-	prepared for modem connection on front or expansion card
6200-BENT.C	Supplementary card	Microcontroller	0.5				
6200-BEAA	Supplementary card	Microcontroller	0.2				No
6200-BEAA.C	Supplementary card	Microcontroller	0.2				on cards BEAA.A, FK
6200-BEAANT	Supplementary card	Microcontroller	0.5	3 (1 switch, 2 NO contacts)	4 digital, 4 analog	2 analog 0/2 ... 10V or 0/4 ... 20 mA	No
6200-BEAANT.C	Supplementary card	Microcontroller	0.5				on cards BEAANT.A, FK
6200-DA	Relay card	Microcontroller	0.2	8 (6 switches, 2 NO contacts)	8 digital	-	-
6200-DE	Digital input card	Microcontroller	0.2				-
6200-DENT	Digital input card	Microcontroller	0.5	-	24 digital	-	-
6200-DENT-RS485	Digital input card	Microcontroller, RS485 connection	0.5				
6200-M	M-bus card	Microcontroller. For reading max. 4 on-site heat meters with M-Bus protocol	0.2	-	-	-	-

Note: The 6200-DENT-RS485 card is only suitable for baelz 6200-i-3.