

RES. SP.2 REM. PARAMAN. PARAMA



baelz 6496 baelz 6596

baelz 6496 / 6596

PID CONTINUOUS CONTROLLER

Constant controller with continuous control signal.

baelz $6X96~\mu$ Celsitron microprocessor controllers are compact and reliable controllers suitable for many industrial control applications, e.g.: in dryers, reactors, steam generators and superheated steam coolers (desuperheaters).

ADVANTAGES AT A GLANCE

- P/PD/PI/PID control behavior with continuous control signal
- Easy operation with 4 buttons
- Auto tuning, self-adaptation of the control parameters
- Option: RS485 Modbus RTU for connection to master computer
- Standard housing 96x96 mm / 96x48 mm
- Control digital input for OPEN, CLOSE, STOP, SP2, REM./LOC.
- Setpoint and positioning ramp with selectable gradient
- Manual/automatic switchover
- Measuring inputs PT 100, 0 / 2-10V, 0 / 4-20mA
- Thermocouple with ext. converter baelz 6261-Thermo
- 2 separate LED displays for setpoint and actual value
- 2 alarms standard: fixed, sliding, tolerance band/range
- LED status display

Technical specifications, baelz 6496/6596 (6X96 stands for both types)					
	6496	6596			
Controller type	PID continuous controller				
Analog inputs	PT100, 2.4 = 0300°C or 2.2 = 0400°C (other measuring ranges on request) Connection in 3-core technology; 0/4 20 mA, Re = 50 Ω ; 0/2 10 V, Re = 100 k Ω				
Analog output for actual value	010V corresponds to 0300°C (2.4) or 2.2 = 0400°C (2.2) Imax = 2 mA				
Digital inputs	high active, Re = 1 k Ω ; open / 0 VDC = low, 12 24 VDC = high				
Digital input & transducer supply voltage	24 VDC, Imax = 60 mA				
Interface	RS485 Modbus protocol in RTU mode 1200 to 19200 baud; 1 start bit, 8 data bits, 1 stop bit, no parity				
Display	2 LED displays for setpoint and actual value				
Mounting	Panel front installation				
Housing	plastic				
Dimensions WxHxD (mm)	96 x 96 x 135	48 x 96 x 140			
Ingress protection rating	IP 65 (front)				
Power supply	230 V / (special voltages on request: 115 V / 24 V), -15% / + 10%, 50/60 Hz				
Weight. approx. (kg)	0.6	0.5			
Ambient temperature (°C)	Operating: 050; Transport / Storage: -25+ 65				

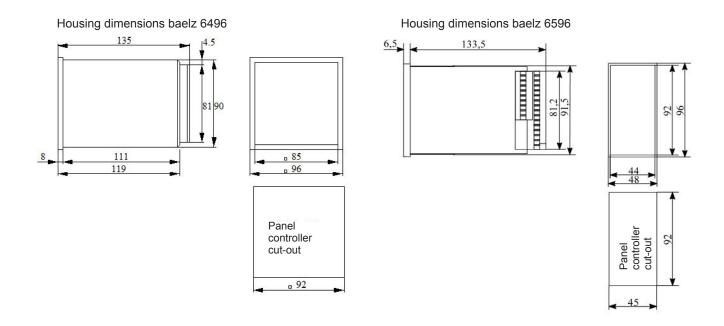
Options / Surcharges	Remarks
2 inputs 0/4 20 mA	
2 inputs 0/2 10 V	
Differential temperature 050 K	
Calibration of measuring input PT100	for connection to Zener barriers
RS 485 - preload S15	for connection to remote maintenance module baelz 5279-NB (only for devices with RS 485)

Note:

- Software for control technology, see baelz 4614
- Wall-mounted housing: Order No. 3570-001
- Adapter for rail mounting: Order No. 3506-004



Inputs and outputs, baelz 6496/6596 (6X96 stands for both types)						
Туре	Measuring inputs	Controller output	Digital inputs	Actual value output 010 V (PT100)	potential-free alarm relay 250 V AC / 3 A	with RS485 interface Modbus RTU
6x96/1	2 measuring inputs can be assigned either with the process variable or the external setpoint: PT100, 0/210 V or 0/420 mA	1x 0/210 V oder 0/420 mA selec- table	1x for switching external / internal setpoint	-	2x	No
6X96/2			5x (open, close, stop, external / internal and 2nd setpoint)	1x 010 V (PT100)	2x	No
6X96/3			With interface RS 485 Modbus RTU 5x (open, close, stop, external / internal and 2nd setpoint)	-	2x	Yes
6496/2-2.4- S7.1/S8.1- 24 V DC			5x (open, close, stop, external / internal and 2nd setpoint)	1x 010 V (PT100)	2x	No



	Overview features depending on type / version baelz 6496 / 6596					
			additional right controller card			
	Equipment	/1	/2	/3		
Basic version	1 measuring input Pt100	✓	✓	✓		
	1 measuring input 0/4 20 mA	✓	✓	✓		
	1 measuring input 0/2 10 V	✓	✓	✓		
	integrated supply voltage 24 V DC (for external two-wire transmitter and digital input)	✓	✓	✓		
	1 digital input REM/LOC	✓	✓	✓		
Options	5 digital inputs		✓	✓		
	1 Pt100 actual value output 010 V		✓			
	1 serial interface RS 485			✓		



Connection diagram baelz 6x96

