

baelz 6497 / 6597

PID 3-POINT STEP CONTROLLER

PID three-point modulating controller with setpoint shift input or P/PID cascade controller

baelz 6X97 μ Celsitron microprocessor controllers are compact and reliable controllers suitable for many industrial control applications, e.g.: in dryers, reactors, autoclaves and heat exchangers.

ADVANTAGES AT A GLANCE

- PI/PID control response with three-point output
- Easy operation with 3 or 4 keys
- 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 ramp with selectable gradient
- Manual/automatic switchover
- Measuring inputs PT 100, 0 / 2-10V, 0 / 4-20mA
- Thermocouple with ext. converter baelz 6261-Thermo
- two-point/three-point selectable
- 2 separate LED displays for setpoint and actual value
- Up to 2 alarms: fixed, sliding, tolerance band/range
- LED status display



baelz 6497

Technical specifications, baelz 6497/6597 (6X97 stands for both types)

	6497...	6597...
Controller type	PID continuous controller	
Analog inputs	PT100, 2.4 = 0...300°C or 2.2 = 0...400°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	0...10V corresponds to 0...300°C (2.4) or 2.2 = 0...400°C (2.2) I _{max} = 2 mA	
Digital inputs	high active, Re = 1 k Ω ; open / 0 VDC = low, 12 ... 24 VDC = high	
Digital input and transducer supply voltage	24 VDC, I _{max} = 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: 0...50; Transport / Storage: -25...+ 65	

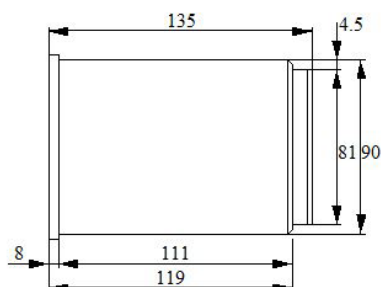
Options / Surcharges (only baelz 6497)	Remarks
2 inputs 0/4 ... 20 mA	
2 inputs 0/2 ... 10 V	
Calibration of measuring input PT100	for connection to Zener barriers

Notes (only baelz 6497):

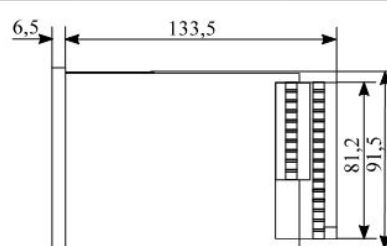
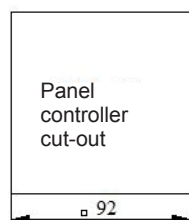
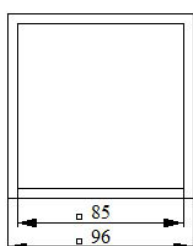
- Also available in 115 V and 24 V.
- Wall-mounted housing: Order No. 3570-001
- Adapter for rail mounting: Order No. 3506-004

Inputs and outputs, baelz 6497 / 6597 (6X97 stands for both types)

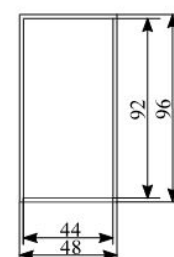
Type	Measuring inputs	Controller output	Digital inputs	Actual value output 0...10 V (PT100)	Alarm relay with potential-free changeover contact 250 V AC / 3 A.	with RS485 interface Modbus RTU
6497/2	2 measuring inputs can be assigned either with the process variable or the external setpoint: PT100, 0/2...10 V or 0/4...20 mA	Three-point step / three-point / two-point selectable	4x (OFS, open, close, stop)	1x 0...10 V (PT100)	1x	No
6597/1-S9			1x "Stop"	-	1x	No



Housing dimensions baelz 6497



Housing dimensions baelz 6597



Connection diagram baelz 6x97

