

**Most suited for:**

Cooking chambers and boiling units, as well as cooling units

**Function:**

The ETA 110 can be used as a **regulator for heating- and cooling processes**, with the possibility of pre-programming and customising the relay functions.

**Special features:**

- adjustable heating or cooling operation
- adjustable hysteresis
- 3 level heating possible
- digital alignment of temperature sensor possible
- second relay as upper/lower value, operational or signal relay
- **heating control** can be set to work as a **two-point control, XP control or for interval operation**
- by pressing a key or automatically the adjusted temperature can be put out to the serial interface RS 232



Graphic with optional WP-frame

**Range for settings:**

range of setting for nominal temperature: -19°C to 350°C  
the upper temperature ceiling can be chosen from 30°C to 350°C } infinitely variable  
contact for upper- and lower value: -100°C to +100°C

Measurement range: -19,9°C to 380°C

**Technical data**

**Mechanical data**

Casing: DIN 4370  
reinforced fibre-glass Noryl,  
shock-resistant, black colour,  
temperature-resistant up to 110°C  
(low-flammability)  
front frame 96 x 96 mm  
with WP-frame 138 x 138 mm  
mounting dims. 90 x 90 mm  
mounting depth 60 mm  
with terminals 80 mm  
own weight: 600 g

**Electrical data**

Operating voltage (standard): 230V 50/60Hz +/-10%  
Special design: 24/42/48/110/127/240 V  
Own consumption: ca. 6 VA  
Safeguards on front side: with rubber seal IP 65  
**optional:** with WP-frame IP 67  
Connections: connection terminals up to 1,5 mm<sup>2</sup> (detachable)  
Permissible ambient temperature: -10/+70°C

**Inputs/outputs**

Inputs: 1 Pt100, two-wire circuit,  
can be digitally aligned  
Outputs: 2 relay outputs,  
Switching capacity 250V AC/5A  
Potential free contacts, of which  
1 change-over contact for upper-/lower value,  
operation or signal  
1 closer for heating or cooling

**Displays**

digital (7-segment display, red)  
Height of numbers: 14 mm  
3-digit for temperature, resolution 1 degree  
Switching status display: light-emitting diodes (LED)

**Options:**

- waterproof frame (WP), protection IP 67
- serial interface RS 232

**Circuit diagram:**

