Graphic with optional WP-frame

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Most suited for:

Chamber- and cooking vat units respectively, refrigeration units, tumblers, mixing units

Function:

The regulator can be set to switch off either after the operating time has run out, or when a certain core temperature has been reached. A signal output will announce the end of the program or a sensor failure. An output is available for either heating- or refrigeration control, another one for either the signal-, operation status report or lower value (can be selected). Two Pt100 inputs for temperature measurement exist for chamber temperature and core temperature.

In case of a power cut, the regulator MKA 110 will resume the interrupted program automatically as soon as power is restored.

Special features:

- Heating- and cooling operation can be set.
- Signal output/operation status report can be set.
- · Various signal functions can be set.
- · Waiting time can be set.
- Core temperature shut-down.
- Delta-T-cooking/F-value cooking
- Control action for the heating can be set as: 2-point, XP or clocking, hysteresis can be set.
- Window for 2-level-heating can be set (lower value contact).
- Option of starting the operation time only when a certain temperature has been reached.

Range of settings: Operating time from 00h: 01min to 99h: 59min, 00: 00 = continuous operation

Waiting time from 00h: 00min to 99h: 59min

Temperature range for chamber temperature from 0°C to 250°C Temperature range for Delta temperature from 0°C to 99°C Temperature range for core temperature from 0°C to 99°C

Technical data

Mechanical data

Casing: DIN 43700

reinforced fibre-glass Noryl, shock-resistant, black colour, temperature-resistant up to 110°C

(low flammability

Front frame 96 x 96 mm
with waterproof frame 138 x 138 mm
Mounting dims. 90 x 90 mm
Mounting depth 55 mm
with terminals 70 mm

Own weight: 600 g

In-/outputs

Inputs: 2x Pt100, two-wire circuit, can be aligned digitally

Outputs: 2x relay outputs,

Switching capacity 250V AC/5A potential free, of which 1x change-over contact for signal, operating or lower value 1x closer for heating or cooling

Options:

- Waterproof frame (WP), protection IP 67 from the front
- aditec VisuNet quality control
- Serial interface RS232 or RS 485 for protocol print out or "SVN" for data transfer "aditec VisuNet"

- 2x Pt500 two-wire circuit

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 WP frame: **IP 67**

Connections: connection terminals 1,5 mm² (detachable)

Permissible ambient temperature: -10/+70°C

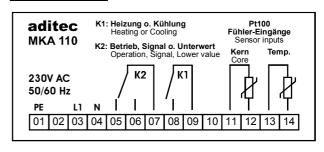
Displays

digital (7-segment display, red) Height of numbers: 14 mm

3-digit for temperature, resolution 1°C 4-digit for operating time, resolution 1 min

Switching status display: light-emitting diodes (LED)

Circuit diagram



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