Overview
Portable monitoring and regulating unit with integrated **mini control unit MKA 110, piercing sensor PT100** (with 2m PTFE (Teflon) cable) and **3-pin plug.**

Most suited for
Mainly in **butcher shops and meat processing factories** as **temperature monitoring and regulating unit.**
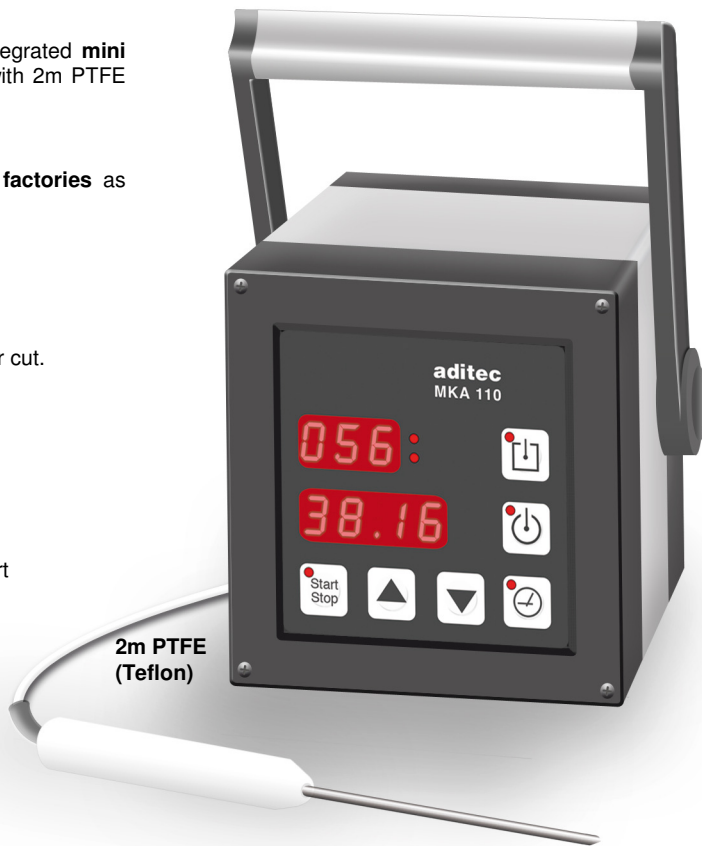
Function
Heating- or cooling operation (K1)
Signal or operation status report (K2)
Two **PT100 inputs for temperature measurement**
The interrupted programme will resume after a power cut.

Special features
- Shock-resistant **ABS-casing**
- Degree of protection **IP65**
- **Audible signal** (which can be switched off)
- **Protective insulated**
- Adjustable **heating or cooling operation**
- Adjustable signal output and operation status report
- Various signal functions can be set
- **Delta-T-cooking** / **F-value-cooking**
- Heating control can be set to work as a **2-point control, XP-control** or for **interval operation**
- **Adjustable hysteresis**
- **Adjustable window for 2-level heating** (lower value contact)
- Possibility of starting the operation time only when a certain temperature has been reached
- Digital temperature alignment is possible

aditec MKA 110

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2m PTFE (Teflon)

Range of settings:
Operating time	from 00h : 01min up to 99h : 59min / 00 : 00 = continuous operation
Chamber temp.	from 0°C up to +250°C (adjustable setpoint limit from +30°C up to +250°C)
Core temp.	from 0°C up to +99°C (adjustable setpoint limit from +70°C up to +200°C)
Delta temp.	from 0°C up to +99°C

Technical data

Mechanical data
Casing   :   DIN 43700
Reinforced fibre-glass Noryl, shock-resistant, black colour, temperature-resistant up to 110° (low-flammability).
Front frame	96 x 96 mm
Mounting dims.	90 x 90 mm
Mounting depth	55 mm
with terminals	70 mm

Own weight: 600g

Overall dimensions casing
Width x height   : 132 x 135 mm
Width incl. handle :   160 mm
Depth   :   155 mm

In-/outputs
Inputs :   **2x PT100**, two-wire circuit (can be digitally aligned)
Outputs: **2x relay outputs**, Switching capacity 250V AC/5A, potential free, of which:
1x change-over contact for signal or operation
1x closer for heating or cooling

Electrical data
Operating voltage : 230V 50/60Hz +/-10% (standard)
Special design : 24/42/48/110/127/240V
Own consumption: ca. 6 VA
Degree of protection on front side: with rubber seal IP65
Connections: connection terminals up to 1,5mm^2 (detachable)
Permissible ambient temperature: -10°C up to +70°C

Displays
- Digital (7-segment display, red)
  Height of numbers: 14 mm
  3-didit for temperature, resolution 1 degree
  4-digit for operating time, resolution 1 minute
Switching status display: light-emitting diodes (LED)

Options
- **aditec VisuNet** quality control (SVN)
- **Serial interface RS232 / RS485** for protocol print out or „SVN" for data transfer „aditec VisuNet"
- **2x PT500** two-wire circuit

Connection diagram

MKA 110   **K1:** Heating or cooling
K2: Operation or signal

Core PT100   **Chamber PT100**

K2   K1

230V AC

PE   L1   N

| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |