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CONTROLS for FOODTECHNOLOGY

Mini regulator MKA 140
with adjustable time interval
CE -conform

Most suited for:
Tumbler-, mixing- and massaging units as well as in interval showers

Special feature:
There is a choice of function for relay K2 as signal-, temperature control- or operational relay.
The core temperature shut down can also be chosen freely. If the core temperature falls below, the appliance shut down.
Actual value display in 0,5°C steps and **nominal value display in 1°C or 0,5°C steps** possible.

Function:
An **overall operating time, interval times** for the shower and **alarm times** can be set. It is possible to change the shower interval times from **minutes-mode into seconds-mode**.

One output **switches** the shower **on and off** according to the pre-programmed interval times. The shower relay switches until the operating time has run out or is in continuous use.

In case of a power cut, the regulator MKA 140 will resume the interrupted program automatically as soon as power is restored.

Graphic with optional **WP-frame**

Measurement range: -20°C to 400°C

Setting range	: Operating time	: from 00h : 01min to 99h : 59min, 00 : 00 = continuous operation
	Interval times shower:	from 00min to 99min,
		Or seconds-mode: from 00min : 00sec to 99min : 59sec
	Core temperature	: 0°C to 99°C
	Temperature range for temperature control: 0 to 200°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 dimensions	90 x 90 mm
Mounting depth	55 mm
with terminals	70 mm
Own weight:	600 g

In-/Outputs
Inputs: 1x 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 temperature regulation, wipe, signal or operating
1x closer for shower

Options:
- Waterproof frame (WP), protection IP 67 from the front
- aditec **VisuNet** quality control
- Serial interface RS232 or RS485 for protocol print or "SVN" for data transfer „aditec **VisuNet**"

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 1,5 mm^2 detachable)
Permissible ambient temperature: -10/+70°C

Displays
- digital (7-segment display, red)
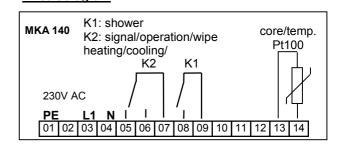 Height of numbers: 14 mm
  3-digit for temperature, resolution 1°C
  4-digit for operating time, resolution 1 min
Switching status display: light-emitting diodes (LED)

Circuit diagram

| **MKA 140** | K1: shower | core/temp. |
| | K2: signal/operation/wipe heating/cooling/ | Pt100 |

K2   K1

230V AC

PE	L1	N											
01	02	03	04	05	06	07	08	09	10	11	12	13	14