

BACKER TERMINAL BOX 2.0 WITH ELECTRONIC CONTROL



Description

Electronic terminal box with microprocessor controlled temperature control. Easy operation with push buttons in the front. Box cover is equipped with easy to read LED display shows the current temperature. Precise temperature control enables NTC sensor with auto-calibration function as well as a variable hysteresis set by the user in the range from 1 to 10°C. Heater damage and the overheating of the liquids is indicated audibly and visually.

The controller is equipped with an independent mechanical overheating protection.

K11E fits Backer immersion heaters with flange sizes between 1 ¼ - 2 ½ inch.

K11E is designed for standalone operation or with external control system.

The product is intended for heating water / liquids.

K11E is certified according to: 60335-2-73



Mounted on the electric immersion heater

Technical specification

Material	Polycarbonate (PC)
Dimensions	130x94x200 mm
IP rating	IP54
Power range	from 1000W to 1000W, 3x400V (14A), 1x230V (14A)
Supply voltage	230 VAC +N or 3x400 VAC +N
Temp. range	5°C - 75°C
Hysteresis adjustable between:	1°C - 10°C
Safety functions	Independent mechanical temperature overheat protection STB 96°C with manual reset Temperature limiter electronic/software 82°C (75°C is maximum user setpoint for media) Protection for dryout if temperature rises >1°C/3s Indication broken heating element sense after 60 minutes
Measurement range	-45°C - 195°C (NTC sensor)
Resolution	0,1°C
Data reading	7 segment LED display
Indication	LED indicates status of heating operation and alarms LED display indicates temperature and settings
Ambient temp.	5°C - 50°C
Temp. sensor	NTC 10 kΩ
External input	Terminal for external control signal (on/off)



Heating pump / water storages

Product advantages

- Application in pressure tanks
- Temperature control with high accuracy
- Clear user friendly status display
- Several operation options
- Can be operated from external control system