

Kuhnke Power Heat Controller
Control Technology
**Kuhnke Power Heat Controller IR
9-channel power controller**

This power controller with EtherCAT® fieldbus interface is designed for the control of high-performance contact heaters or infrared radiators.

The unit needs less space in the switching cabinet than solid state relays and is a cheaper alternative to the classic PLC-based control, specifically when it comes to using intelligent functions such as soft start, mains voltage compensation or heater break recognition.

Features

- Compact design
- EtherCAT fieldbus interface
- Soft start by phase-angle control
- Power optionally supplied through bus bar
- Automatic line voltage correction
- Replaceable super-quick-acting (FF) load fuses
- EtherCAT network ready (optional PROFIBUS)
- CODESYS function blocks for control actions available
- Each channel's status indicated by LEDs



Technical Data	
Load current	9 x 4000 W (each channel carrying max. 16 A)
Load type	Resistive load / IR radiator
Mains voltage	3 x 400 V AC (±10%) without N wire
Mains types	TT or TN system
Adjustment range	0% ... 100%
Cooling	active by two redundant axial fans
Controls	PC software (Heat Commander) for operation and monitoring
Status indication by LEDs	EtherCAT RUN / ERROR, POWER, BUS 1 / 2 CPU error / status, CH1 ... CH9 status
Fieldbus	EtherCAT IN/OUT
Functions	soft start, full-wave control, line voltage compensation
Housing made of	stainless steel
Protection	IP 20
Ambient temperature Operation	ambient temperature if installed vertically: 0 °C to +55 °C relative humidity 5 % to 80 % at 25 °C (non-condensing)
Permits	CE, UL/CSA
Dimensions (H x W x D)	285 x 100 x 175 mm

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