MidTeQ HeatX

Hot water controller with PV surplus utilisation — MID-O4-V1

MidTeQ HeatX captures PV surplus and uses it automatically to heat water. It communicates directly via the MidTeQ PULSE EMS, mounts on a DIN rail and requires no smart meter or additional hardware.



4
Heating circuits with priority

DIN
Rail mounting — plug & play

0
Smart meters required

Fully automatic – Maximize self-consumption

- **Captures PV surplus** and uses it to heat water — automatically.
- **Max. utilization of surpluses** without any manual effort.
- Direct communication via EMS MidTeQ PULSE.
- Compatible with the MidTeQ PrimePower hybrid inverter.
- **No system change required** — seamlessly integrates with already installed setups.

Advanced control & connectivity

- **Plug & Play DIN rail installation** — no smart meter, no additional hardware required.
- 4 heating circuits with priority.
- Cascade setting of output switching.
- **WiFi (ESP32 module)** with TCP transport and Modbus application layer.
- **Integrated touchscreen display** — monitoring of power, temperature and network (router/cloud).
- **Emergency mode** — manual emergency heating function included.

Technical specifications

Model	HeatX MID-O4
ELECTRICAL DATA	
Power supply	12–24 V AC/DC
Operating temperature	0 °C to +50 °C
Degree of protection	IP20 (open-frame design)*
Mounting method	DIN rail mounting (suitable for fuse distribution boxes)
Dimensions (W × H × D)	89.5 × 90 × 58 mm
INPUTS & OUTPUTS	
Temperature inputs	Min. 3 channels for external sensors
Measurement range	-10 °C to +85 °C
Sensor connection	External via 3 m cables (dry environment)
Control outputs	Min. 4 channels for external SSR
Control signal	3 – 32 V DC
Max. load	Refer to specific SSR manual
FUNCTIONS & COMMUNICATION	
Primary function	EMS commands: surplus PV energy to boilers
User interface	Integrated touchscreen display
Monitoring	Power, temperature, network (router/cloud)
Emergency mode	Manual emergency heating function included
Communication	WiFi (ESP32 module) with TCP transport and Modbus application layer
CERTIFICATION	
Certifications	EN300 328, EN301 489-1, EN301 489-17, EN63368, EN62311, EN50665, EN55032, EN55035, EN60730, EN18031, EN303 645; RoHS

* Open-frame design intended for installation inside a fuse-equipped distribution box. Overall protection is provided by the distribution box enclosure, and the product complies with relevant safety standards (e.g. EN60730) when installed as specified.

Specifications are subject to change without notice.