

# Energy manager

Gateway for the transfer of field data



## Application

**Can be used as an interface between Askoma heating elements and the cloud**

The Askoma energy manager is used to transmit energy and resource consumption.

The gateway is used to monitor and control devices and system states.

The screw-in heater **ASKOHEAT+** and the flange heater **ASKOHEAT-F+** require this gateway for communication.

Together with the cloud, the energy manager controls the **ASKOHEAT+** / **ASKOHEAT-F+** independently of an internet connection.

With the energy meter (article number: 004-0356 / 004-0364) the data is exchanged via Modbus RTU, with the **ASKOHEAT** devices via Modbus TCP.

## Connection

The data transfer to the cloud takes place via a local router that must be connected to the Internet.

## Article numbers

Power pack: 004-0356  
Energy manager: 004-0357

## Software

Update-capable energy manager software based on a fast Linux distribution.

## Technical data

Size (W x L x H):	37mm x 97mm x 62mm
Mounting:	DIN Rail mounting (35mm cap rail)
Operating temperature (max.):	0°C up to +55°C
Supply:	24 VDC (±15%), 60 mA (max.), via plug (Weidmüller BL 5.08/03)
CPU:	i.MX 6UL (Cortex A7, 528 MHz), 512MB DDR3 RAM, 1MB NOR Flash, 512MB NAND Flash
Real Time Clock	Buffered by lithium battery
Ethernet interface:	2 x 10/100BaseT, 2x MAC address, RJ45 connectors, Link and traffic LED indicators
Serial interface:	1 x RS485 galvanically isolated, Weidmüller BL 5.08/02 plug
SD Card Interface:	1 x microSD card, SD / SDHC, Push/push Slot
Trusted Platform Module:	External circuit for encryption and identification of the hardware
I2C interface	Pin header for connecting external I2C functions such as display or push buttons
CE RoHS /WEEE:	IEC 61000-6-3, IEC 61000-6-2, IEC 62368-1