

The KEOPS solution consists of KEOPS distribution boxes connected to their supervision software, KEOPS Manager.

The KEOPS distribution box is a conventional electrical box with the addition of:

- 1- **intelligence**: enabling it to self-diagnose its own faults.
- 2- a **Wi-Fi unit**: enabling it to inform the supervision software of its operating status or any malfunction and to handle an Internet access.
- 3- a **cut-off device** enabling it to activate or deactivate its sockets.



FUNCTIONNALITIES

Measuring and counting

Permanent measurement of electrical information: power and intensity per phase, available on the terminal display thanks to a "technician card",

Measurement of the power in real time, the average power consumption every 10 minutes and the total power consumption (in kW and kWph).

Automatic transfer of the meter value directly to KEOPS MANAGER supervision software every 30 seconds (only for terminal with meters).

Internal controls

Self diagnosis of the terminal electrical supply : permanent testing for the phases and earth detection, automatic cut off of the electrical distribution in case of any breakdown of the power supply.

Power programming

Programmable power from 0 kW to the maximal power the terminal can supply, per step of 1kW.

Program modification

Exhibitor order modified = Remote update of KEOPS terminal including the new parameters.

Remote cut off of the electrical distribution:

Outlets remotely cut off when:

- there is no order
- the payment is delayed or missing
- the power used is exceeding the order.

The electrical distribution can be remotely switched on thanks to either KEOPS MANAGER supervision software or directly on the terminal by a technician.

Time Slot programming

Automatic loading of the calendar of each event including the daily "power switch on modus" schedule.

Different operating status:

- Permanent (24/24),
- Daytime (KEOPS terminal automatically switched off at night).

Languages

5 languages available: French, English, German, Spanish and Italian. The exhibitor can change it at any time on the terminal.

Telecoms

Internet « Plug and Play » available on KEOPS terminal.

SOME EXAMPLES OF KEOPS TERMINALS

KEOPS V301M distribution box: 2x16A /6 kW max.

Housing: 2 segments AMAXX© - Mennekes
 Power supply: Single-phase on contactor via terminal block
 Power distribution: 2 single-phase sockets 16 A, 2P+E, 230V



KEOPS V321R distribution box: 32 A /20 kW max.

Housing: RITTAL - Polyester KS
 Power supply: Three-phase on contactor via terminal block
 Power distribution: 1 three-phase 32 A P17: 5 poles



KEOPS V341MC distribution box: 63A /40 kW max.

Housing: 4 segments AMAXX© - Mennekes
 Power supply: Three-phase on contactor via terminal block
 Distribution :
 1 three-phase 32A P17, 5 poles, 400V
 1 three-phase 16A P17, 5 poles, 230V
 3 single-phase sockets 16 A, 2P+T, 230V
 One of them is separate for a "fridge socket" running
 Meter: 1 meter 3 x 230 V, 10(65) A, official MID



You will find more information concerning our terminals by visiting our web site: www.cube-technologies.com

KEOPS COMPONENTS TO BE INTEGRATED

The KEOPS components could be integrated in any distribution box you would like (subject to a technical feasibility study).



KEOPS AMxx is installed in the KEOPS distribution box. It carries out a large number of electrical measurements, calculates consumptions, detects and analyses faults upstream and downstream of the distribution box and controls the internal contactors.

KEOPS ICM-OLED control unit has an embedded PC/Wi-Fi electronic card. The control unit receives information from the measuring actuator and controls its outputs.

The CONTACTOR is a traditional electrical component used to cut the power distribution. One or more contactors could be integrated depending on the function desired.