KRONOTERM

EuroCloud AWARD 2015 CANDIDATE

2015 EuroCloud SLOVENIA

BEST CLOUD SERVICE FOR VERTICAL MARKETS

WEB USER INTERFACE

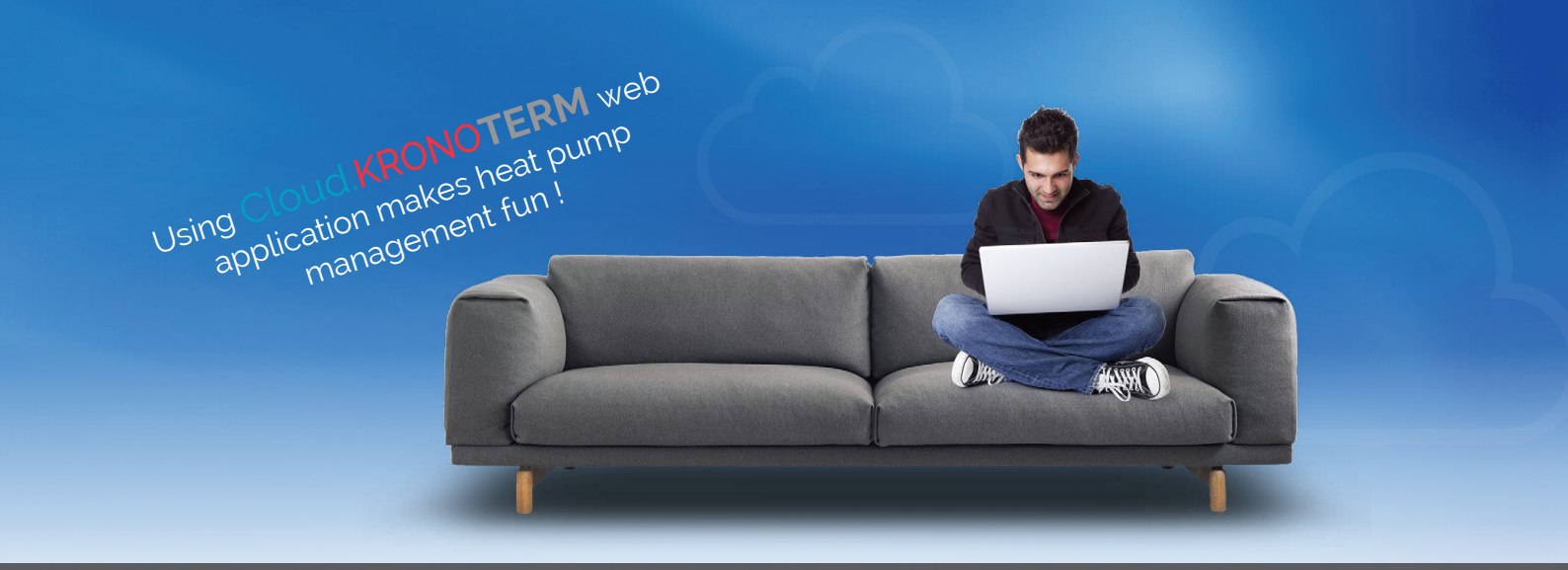
Download on the App Store

ANDROID APP ON Google play

Cloud.KRONOTERM
for water heating pumps

Management and control of heat pump using cloud service technology

- Real-time remote control anytime & anywhere
- Powerful weekly schedules
- Visual representation of heat pump operation
- Heating costs overview and analysis
- Remote maintenance and support



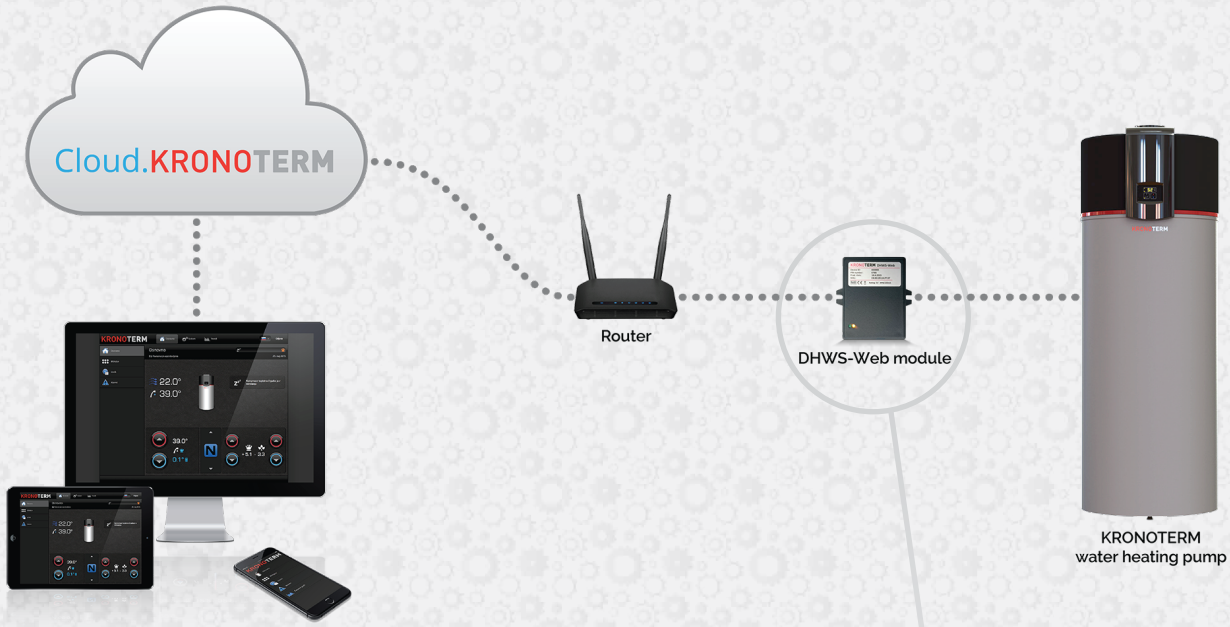
Features

Simple&Secure real-time unit control anytime, anywhere.

Powerful and user friendly weekly schedule configuration.

Quick buttons for additional modes of operation

Visual representation of heat pump operation.



Technical specification

DHWS-Web module

Power supply

5VDC; 150mA

Micro-controller

PIC32MX; MIPS32 M4K Core; 40 MHz
128 kBytes of RAM; 512 kBytes of FLASH memory

Ethernet

10/100 Mbit connection
DHCP client for dynamic IP (static IP possible)
Local module management web interface
Cloud server time and date synchronization

MODBUS

Proprietary 3-wire connection with DHWS-BB-IO controller

Extras

Button for simple 3-step user registration to the cloud
MicroSD storage for long term data logging (4 Gb)
Hardware RTC for accurate timings
STATUS signal LED
CLOUD signal LED

Dimensions

WHD: 59 x 76 x 17,5 mm
Mounting: 2x ø4 screws

DHWS-Web module connects water heating pump device and the Cloud.KRONOTERM service server.

- SSL (Secure Socket Layer) connection between the KRONOTERM Web module and Cloud.KRONOTERM.
- SSL connection between client and Cloud.KRONOTERM (HTTPS)
- Service does not use any sensitive private information

Controller extras

Heat pump controller for sanitary water **DHWS-BB**

Extended functionality with additional DHWS-Web module:

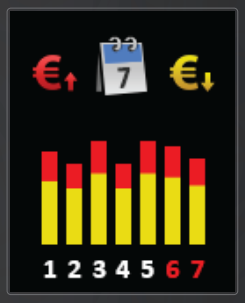
Weekly Schedule: A schedule for every day in a week can be set. Up to three scheduled periods can be configured during each week day. Scheduled period is defined by a start time, stop time and an active operation mode. After the scheduled period ends the heat pump returns to the previously selected operation mode.

Heating costs: Heating costs menu provides access to a theoretical heating cost calculation with 3% error tolerance for different time periods. Daily, weekly and monthly reports are available with the ability to compare costs for the last 4 weeks of operation.

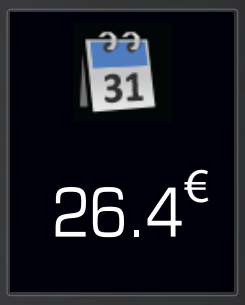
World Time&date synchronization: Heat pump time and date are synchronised with the cloud.KRONOTERM server.

Extra (3rd) daily schedule period

Weekly schedules setup



Weekly heating cost overview



Montly heating cost estimation