

Energypanel

The Censitel Energy panel is designed to provide energy control and related services like wireless supervision, control and data collection.



Panel description

- Based on a touch-sensitive graphical display for user-friendly operation.
- Menus and screen images can be programmed and customized according to customer needs.
- Wireless communication is used for supervision, control and data collection.
- Supports communication over WLAN, GSM/GPRS, ZigBee and 868MHz.
- Mains powered with battery back-up.

The panel communicates with the electricity meter, the energy provider and external devices like sensor networks and actuators to provide a broad range of services according to the system diagram below:



Tasks the panel can perform are:

- Graphical presentation of energy consumption (current value and over time).
- Monitoring of consumption.
- Automatic or manual remote control of electrical outlets and appliances, from the panel or a cellphone.
- Communication with energy providers, messaging services.
- Communication and supervision of wireless sensor networks.
- Remote shut-off of main water supply (if a leakage is detected).

Services that can be provided are:

- Energy saving and control.
- Messaging and information service.
- Meter-reading.
- Alarm and warning.
- Services for increased comfort like picture frame, calendar, weather forecast etc.

Technical data	
Communication options	868Mhz ISM band, maximum transmitted power +10dBm Used for sensor network / data collection or RF Mbus GSM / GPRS WLAN ZigBee
Antennas	Internal
Dimensions (mm)	Height 130 Width 240 Depth 32
Display	Touch sensitive 7" Colour WVGA graphic display
Tamper	Breaking or removing the unit will trigger a tamper alarm.
User interface	All user input to the panel are implemented as SW-generated buttons on the display.
Powersupply	Mains operated with internal battery back-up Input Voltage 85-265 Volt AC, 50 or 60 Hz Average Operating Power 5 W
Back-Up battery type	4 AAA rechargeable NiMH (NickelMetalHydrid) batteries
Installation	Wall-mounted using a bracket
Environmental	Temperature range -10 to +40 degrees C 75% relative humidity
Approvals	CE
External connections	USB 2.0 Mini SD
Operating system	Linux