

Operational description

The RC-88 is a wireless wall button with built in antenna - component of Jablotron's Oasis 80 alarm system. It is designed to be a remote control for setting/unsetting (arming/disarming) an alarm system, triggering panic alarms or remotely controlling other appliances. The battery-powered wireless button communicates via OASIS radio protocol.

The operating frequency is $f = 868.5$ MHz.

The device is activated by pressing the front surface

The wall button can work in two modes depending on the state of DIP switch 1 on the PCB.

Dip switch 1 OFF: standard operation of button. Pulses are transmitted only after pressing the button, no periodic signal are transmitted.

Dip switch 1 ON: TAMPER contacts, supervision of battery status are activated.

Normal operation: after activating the pulse train 3×30 ms .

Duty cycle : to check the system integrity the device sends once in 9 minutes a data pulse.

The device is battery operated. The source used for testing was a new battery , type CR 1425; $U = 3V$ delivered with the device.

The wireless transmitter (connection to control unit) has operating frequency $f = 868.5$ MHz.

Antenna type : Internal, Integral