

Operational Description

The wireless call bell is a part of RECS, the Radio-Electronic Calling System, intended to simplify the process of customer service at a restaurant, hospital, or other facility where service is needed.

Inside a call bell, there is a transmitter. Pressing on the button of the call bell, a customer summons service staff, whereupon the assigned number of the pressed bell bell is shown on the receiver. LEDs in the call bell also flash briefly when it is pressed, confirming that the call has been sent.

The transmitter sends a four-second 433.92 MHz OOK-modulated signal through an integrated quarter-wavelength monopole loop antenna. The channel width is 150 kHz. The call bell operates using a voltage of 7.5 to 9.5 volts provided by a PP3 nine-volt battery and employs a negative signal ground.