

- Wireless connection
- Possibility to build mesh networks
- Auto-sending data to a controller
- Circuit continuity control to an individual metering device

SZ-P04C is the recorder of energy consumption from measuring devices with pulse outputs. The recorder uses wireless channel as a data transfer medium. The devices are organized in a wireless mesh network by means of a network controller. SZ-P04C supports auto-sending data to the controller as well as sending responses to the controller requests. Circuit continuity control is performed to an individual metering device.

Simple installation and initial setup

Data transmission through a wireless channel allows deploying network in the conditions of existing buildings. To add new devices in the network, use Android application. The application allows collecting data from electricity meters automatically without the necessity to supply and match the data manually.

Work principle

Up to 4 energy meters with pulse outputs are connected to SZ-P04C. Pulse counting is performed separately for each channel. Further the counted values are sent to “Smart Control” network controller.

- Wireless connection
- “Eltex SC” network management for SZ-P04C and SZ-W02 recorders
- Controllers allocation on “Eltex SC” network
- Interaction with “Eltex SC” platform by Ethernet interface
- Circuit continuity control to an individual metering device

SZ-CP04EC is a controller of “Eltex SC” wireless network with an embedded recorder of energy consumption from metering devices with pulse outputs. The device allows accumulating information from SZ-P04C and SZ-W02 recorders through a wireless channel and transmitting it to the “Eltex SC” platform. Circuit continuity control is performed to an individual metering device.



SZ-P04C

Data exchange with controller

During device registration in a network, a request with device information (device type, command classes supported by the device) will be sent to a controller. The controller makes initial device polling based on this information.

Capability to send such requests allows resetting recorders or receiving information on their status.



SZ-CP04EC

SZ-W02 is a wireless dual-band water consumption recorder with battery supply. The device is designed for automatic data collection and transmission from individual metering devices with pulse output. Circuit continuity control is performed to an individual metering device.

Work principle

Up to 2 water meters with pulse outputs are connected to SZ-W02. Pulse counting is performed separately for each channel. Further the counted values are sent to “Smart Control” network controller.




SZ-W02

Technical features

	SZ-CP04EC	SZ-P04C	SZ-W02
Basic technical specifications			
RAM	128 Mb	—	—
Flash	32 Mb	—	—
OS	Linux	—	—
Interfaces			
Ethernet	10/100BASE-T (RJ-45)	—	—
Wireless interface		869 MHz	
Pulse input	4	4	2
Wireless interface parameters			
Transmitter power		6 dBm	
Frequency range		869 MHz	
Receiver sensitivity		-103 dBm	
Max operating distance		30 m	
Physical parameters and parameters of environment			
Power supply	230/400V 50 Hz	230/400V 50 Hz	Power battery: CR123A (battery average work time is 4 years)
Operating temperature		from 0 to 55°C	
Operating humidity		20-80 %	
Form factor	Plastic case for DIN rail mounting	Plastic case for DIN rail mounting	Waterproof plastic case
Dimensions (WxHxD)	106.25x90.2x57.5	71x90.2x57.5	64x58x35

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About Eltex

Eltex company is a leading Russian developer and manufacturer of telecommunication equipment with 25 years of history. Integrity of solutions and seamless integration into Customer infrastructure is the priority direction of company development.