

Wavelog

Product summary

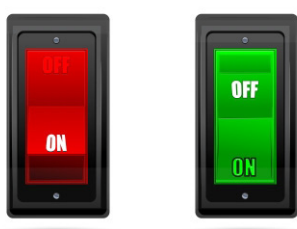


Wireless binary ON/OFF monitor

Wavelog is a 2-way wireless device based on Wavenis ultra-low-power and long-range technology that allows you monitoring binary state-generating sensors and to control actuators, such as on/off devices and open/closed sensors.

With fully configurable input and output channels, Wavelog offers a flexible and efficient solution for managing, monitoring and controlling binary devices such as valves, motors, intrusion alarms and lighting systems.

Wavelog detects state changes and wirelessly transmits data to Wavenis-enabled data collection devices.



- Up to 4 inputs and 4 outputs channels (pulse or level control)
- Data logging (up to 500 event readings)
- Fully configurable
- Automatic transmission of alarms
- Multi-year battery operation for stand-alone installation

Monitor binary states and control a system remotely

When connected to a binary digital I/O device, Wavelog can detect state changes and wirelessly transmit data (Immediate transmission or store-and-forward operation) to a Wavenis enabled data collection unit. Wavelog output ports may also be used simultaneously to control any connected device.

Two of these Wavelog can work as a couple: the input state on one of the first Wavelog can be automatically transferred to the other one (external power supply may be required).

Based on Wavenis Ultra Low Power (ULP) and long-range technology, Wavelog products offer battery life up to several years and wireless coverage robust enough to handle even the most hard-to-reach places. Wavelog is designed for integration in Wavenis wireless networks, and is fully compatible with all Wavenis protocol-based products.



Product Specifications

- Event logging and alarm sending on state change
- Allows state transfer from one Wavelog to another
- Radio range up to 200 meters indoors, 1km outdoors
- Controls outputs remotely

Wavenis Properties Overview

- Operates in license-free ISM 433, 866, 868, or 915MHz
- EN300-220 / FCC15.247 certified & compliant
- Typical rate:
 - 9.6kbps (433, 866 & 868MHz)
 - 19.2kbps (915MHz)
 - more on demand
- Frequency Hopping Spread Spectrum (FHSS)
- GFSK modulation
- Single channel operation for narrowband applications (alarms)
- Data interleaving, Forward Error Correction BCH (31,21)
- Automatic Frequency Control (AFC) for optimal performances over operating lifetime
- Quality of Service management (RSSI) and output power control
- Point-to-Point, Point-to-Multipoint (broadcast, polling) modes, and native repeater (up to 3 hops)
- Tree and star network topologies
- Designed for reliability, power savings, network coexistence
- Access hard-to-reach devices with link budget of 124dBm (25mW)
 - Line-of-sight range up to 1km (25mW/+14dBm and 10mW/+10dBm)
 - Line-of-sight range up to 4km (500mW / +27dBm)
 - Sensitivity: -110dBm @ 9.6kbps

General features

- 2-way Wavenis wireless communications
- 25mW (868/915MHz) and 10 mW (433MHz) versions
- 4 inputs (dry contact), 4 outputs
- Ready-to-use version gives 2 inputs and 2 outputs
- Programmable length, front and timing in pulse output mode (requires external power for continuous level output)
- Remote device status and input reading
- Wireless configuration
- Time synchronization
- Programmable transmission and recording cycles, operating hours, and day/night mode
- Stores up to 500 events
- Customizable alarms with automatic transmission
- Immediate or delayed alarm sending
- Wirecut and low-battery detection
- Up to several years battery life (depending on usage)

Physical description

- IP68 protection (for ready-to-use version)
- Operating Temperature range: -20° to +70°C
- Battery size (for finished product): 3.6V 3.6Ah
- Dimensions and weights:
 - OEM (without battery): 65 x 23 x 14mm ; 10g
 - Ready-to-use: 98 x 47 x 35mm; 140g

Product Codes

	OEM	Finished Product
433MHz	WLO433-OEM-10-A	WLO433-FP-10-A
868MHz	WLO868-OEM-25-A	WLO868-FP-25-A
915MHz	WLO915-OEM-25-A	WLO915-FP-25-A



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