



Communication skills for ultra low powered objects



## WIRELESS BINARY-ON/OFF MONITOR

Wavelog is a 2-way wireless device that allows you to monitor binary state-generating sensors and to control actuators, such as on/off devices and open/closed sensors. With its set of fully configurable input and output channels, Wavelog offers a flexible solution for monitoring any binary device that indicates states with pulse or level generation and directly applies digital commands to actuators.

When connected to a binary digital I/O device, Wavelog can detect state changes and wirelessly transmit data to a Wavenis-enabled data collection unit. Wavelog output ports may be also used simultaneously to control the connected device's actuators, such as valves, motors, and intrusion alarms.

- Uses Wavenis secure wireless communication protocol
- Operates in 433MHz, 868 MHz and 915 MHz ISM bands
- 4 input / 4 output channels (pulse or level control)
- Data logging (up to 500 event readings)
- Fully configurable
- Automatic transmission of alarm signals
- Battery operation for stand-alone installation

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.



## Wavelog Specifications

### PRODUCT FEATURES

- 2-way Wavenis wireless communications
- 4 inputs (dry contact), 4 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
- Timed synchronization
- Programmable transmission and recording cycles, operating hours, and day/night mode
- Stores up to 500 readings
- Customizable alarms with automatic transmission
- Instant alarms or delayed send (sequential or cumulated)
- Automatically detects severed cable and low-battery
- Up to several years battery life (depending on usage)
- IP65 protection (IP68 optional)
- Temperature range:
  - Operating -20° / +70°C (-4° / - 158°F)
- Size: 26 x 20 x 7 mm (1 x 0.8 x 0.28 in)
- Weight: 110-160g

### WAVENIS WIRELESS FEATURES

- Optimized Wavenis wireless technology for demanding applications that require ultra low-power consumption, long range, and reliability in hard-to-reach places
- Easy automated wireless configuration
- Radio range up to 1 km in line of sight outdoors, up to 200 meters indoors
- Resistant to RF interference
- 2-way links with mobile and fixed network control points
- Point-to-point, polling, repeater modes
- Tree, star, and mesh network topologies
- 433/868/915 MHz ISM bands
- EN300-220-1 & FCC15-249 compliant
- EMC compliant with EN 300-683
- Meets EN 50014 and EN 5020 class 3 specifications

### OTHER SENSOR PRODUCTS FROM CORONIS SYSTEMS

Wavelog is completely compatible with all Wavenis-based networking and data monitoring products from Coronis Systems.

- Wavesense – wireless sensor monitor
- Wavetank – tank and silo level monitor
- Wavenis-powered mobile data collection tools (Tablet PC, PDA, HHC)
- Wavenis CompactFlash, Waveport serial/USB cards, and Wavecard OEM wireless cards
- Wavecell GSM/Wavenis gateway
- Wavetalk repeater
- Data management and module configuration software

Training, support, and product customization are available from Coronis Systems. Please check with us directly for details. Write to [info@coronis-systems.com](mailto:info@coronis-systems.com).

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