

Z-Wave Protocol Implementation Conformance Statement

Water Leakage Sensor

General Information

Product Identifier:	WLS-23-ZW
Brand Name:	Climax Technology
Product Version:	HW: 255 FW: 4.04
Z-Wave Certification #:	ZC10-19086692

Product Features

Sensors	Air Temperature Humidity
Supported Notification Types	Water Alarm
Battery Quantity	1
Battery Type	CR123

Z-Wave Product Information

Supports Z-Wave Beaming Technology?	No
Supports Z-Wave Network Security?	Yes
Supports Z-Wave AES-128 Security S0?	No
Supports Security S2?	Yes: S2 Unauthenticated
SmartStart Compatible?	No

Z-Wave Technical Information

Z-Wave Frequency:	CEPT (Europe)
Z-Wave Product ID:	0x0012
Z-Wave Product Type:	0x0003
Z-Wave Hardware Platform:	ZM5202
Z-Wave Development Kit Version:	6.81.04
Z-Wave Library Type:	Enhanced 232 Slave
Z-Wave Device Type / Role Type:	Notification Sensor / Reporting Sleeping Slave

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Water Leakage Sensor

Association Group Information

Group # / Max **Description**

Nodes

- 1 / 1 Group 1 for “LifeLine”: (maximum node: one) Sensor Multilevel CC (COMMAND_CLASS_SENSOR_MULTILEVEL_V4) Notification CC,V8 (COMMAND_CLASS_NOTIFICATION) Battery CC (COMMAND_CLASS_BATTERY) Device Reset Locally CC, V4 (COMMAND_CLASS_DEVICE_RESET_LOCALLY) *. Factory Reset [COMMAND_CLASS_DEVICE_RESET_LOCALLY] [NOTIFICATION_REPORT] 1. Press and hold the function button for 10 seconds to perform factory reset and send factory reset report to the Control Panel. *. Battery: [COMMAND_CLASS_BATTERY] [BATTERY_REPORT] 0x64 --- 100% Battery Full 0x5A --- 90% Battery 0x50 --- 80% Battery 0x46 --- 70% Battery 0x3C --- 60% Battery 0x32 --- 50% Battery 0x28 --- 40% Battery 0x1E --- 30% Battery 0x14 --- 20% Low Battery 0xFF --- Battery Dead (Cut Off) Cut Off --- The device will stop working and the LED will flash every 4 seconds. *. Water Alarm/Restore: [COMMAND_CLASS_NOTIFICATION] [NOTIFICATION_REPORT] Water Alarm: 00 00 00 FF 05 02 00 Water Restore: 00 00 00 FF 05 00 01 02 *. Test Button: [WAKE_UP_NOTIFICATION] Press the function button once to awaken the Water Leak Sensor and it will send a wake up notification along with temperature and humidity report to the Control Panel. *. Temperature/Humidity: [COMMAND_CLASS_SENSOR_MULTILEVEL][SENSOR_MULTILEVEL_REPORT] Press the function button once to send temperature and humidity information to the Control Panel. Temperature: 01 42 09 D1 If temperature signal 01 42 09 D1 is transmitted, 09 D1 can be viewed as 0x09D1 in Hexadecimal number. You can convert hexadecimal to decimal and divide by 100 to check the temperature data (in Celsius). 0x09D1=2513=25.13 . *. Humidity: 05 02 00 3B If humidity signal 05 02 00 3B is transmitted, 00 3B can be viewed as 0x003B in Hexadecimal number. You can convert hexadecimal to decimal to check the humidity level (in percentage). 003B=0x003B=59%
- 2 / 1 Group 2 for “Basic Set”: (maximum node: one) 1. When the Water Leak Sensor is triggered, it will send “Basic set” (0xFF) to the node in Group 2. 2. When the Water Leak Sensor is restored, it will send “Basic set” (0x00) to the node in Group 2.

Supported Command Classes (16):

Association Group Info	Association V2
Battery	Device Reset Locally
Firmware Update Meta-Data V4	Manufacturer Specific V2
Multi-Channel Association V3	Notification V8
Powerlevel	Security S2
Sensor Multilevel V11	Supervision
Transport Service V2	Version V3
Wake Up V2	Z-Wave Plus Info V2

Controlled Command Classes (1):

Basic