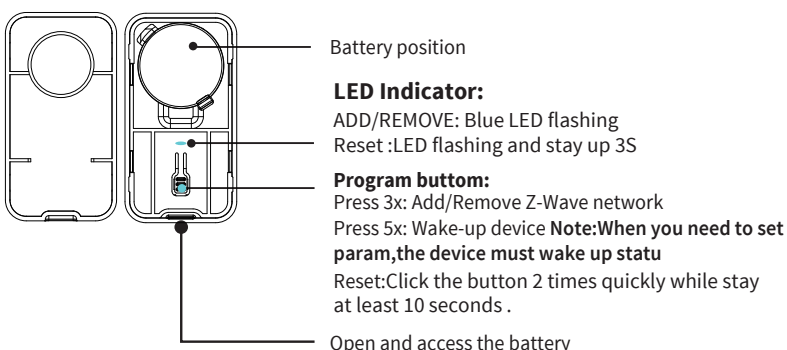
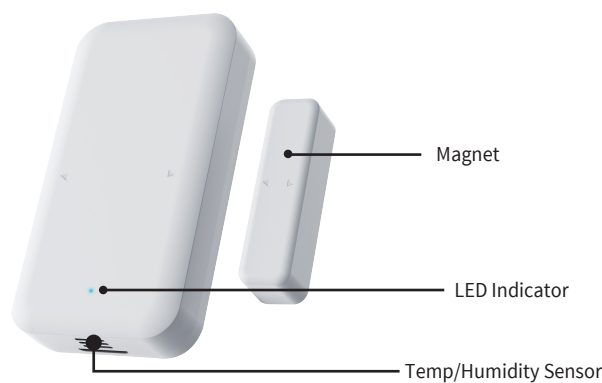




Z-wave 3 in 1 Sensor  
D/W Temp & Hum Sensor

• ZWS713 •



The device contains two Multilevel sensors with the following accuracy measures:

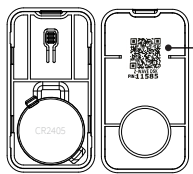
Relative Humidity: precision  $\pm 3\%$  RH (max), range 0 to 100% RH  
Temperature: precision  $\pm 0.4^\circ\text{C}$  (max), range -25 to 125  $^\circ\text{C}$

Installation:

- 1.You can choose mount it on any type of clean flat surface on D/W.
- 2.Use the supplied adhesive tape to attach magnetic base to the D/W.
- 3.Install in your electrical switch box or mount anywhere on a wall with just adhesive tape
- 4.Power by battery,no need wires needed.Note the  $\pm$  direction of the battery
- 5.Control other Z-wave devices and enable scenes with a click of a button

Z-wave Control

Adding Device To your hub and Z-Wave Network for QR code



Choose your hub into and scan the QR code with your phone's camera and add to Smartstar

**Note:**DSK Code can be found on packaging.  
Do not remove or damage them.

Wake-up mode

The sensor's wake-up interval is set to 12 hours by default to save battery life. You can change the wake-up interval using your controller's advanced settings if available.

Manual wake-up

Press 5x the Z-wave button to wake up the device .The LED indicator flashing stay up 1s. You may need to wake up the sensor manually IF:

1. It doesn't fully configure during set-up (values are not displayed or errors pop up in your hub's interface).
2. You change advanced settings for the sensor and hope they will be updated.

To add the device

1. Follow the instructions for your Z-Wave certified controller to adding device from the Z-Wave network.
2. Once the controller is preparing add your device, press the program button 3 times quickly.

To remove the device

1. Follow the instructions for your Z-Wave certified controller to remove a device from the Z-Wave network.
2. Once the controller is preparing remove your device, press the program button 3 times quickly.

Factory reset

Manual: Click the button 2 times quickly while stay at least 10 seconds .LED flashing and while stay up 3S.

★ Note:

Install the custom device handler to access the right functions if you're using the SmartThings hub. Please visit our website: [www.nie-tech.com](http://www.nie-tech.com) or email us: [ask@nie-tech.com](mailto:ask@nie-tech.com)

Parameter Settings

Parameter 1 Battery report threshold  
Use this parameter to set battery level change to be reported by the sensor.  
(DEFAULT): 10%

Parameter 2 Low Battery alarm report  
Use this parameter to set battery level for sending low battery reports.  
size=1 byte Available range : 5%-20%  
(DEFAULT) : 5%

Parameter 3 Parameter defines state of the sensor when the magnet closes the reed  
size=1 byte Available settings:  
Decide which status should the sensor report to the hub when the magnet touched the sensor  
0 - door/window closed (DEFAULT)  
1 - door/window opened

Parameter 4 Delay in seconds with ON command report ( door closed )  
Use this to set the door close delay reporting time  
size=2 bytes Available settings: 0 (DEFAULT) - 3600s

Parameter 5 Delay in seconds with OFF command report ( door open )  
Use this to set the door open delay reporting time  
size=2 bytes Available settings: 0 (DEFAULT)- 3600s

Parameter 6 Minimum Temperature change to report  
Use this to set temperature change to be reported by the sensor.  
size=1 byte Available range : 5-50 (0.1 $^\circ\text{C}$  step)  
Value 5 = 0.5  $^\circ\text{C}$

...  
Value 10 = 1.0  $^\circ\text{C}$ (DEFAULT)  
...  
Value 50 = 5.0 $^\circ\text{C}$

Parameter 7 Minimum humidity change to report  
Use this to set humidity percentage change to be reported by the sensor  
size=1 byte Available range : 5-20  
(DEFAULT): 10(10%)

Parameter 8 Temperature Upper Watermark value  
If the measured temperature surpasses this watermark a BASIC command is sent into Association Group 3  
size=1 bytes Use this to set Temperature Upper Watermark value to be reported by the sensor  
Value = 0: disabled (DEFAULT)  
Value = 1~50 $^\circ\text{C}$

Parameter 9 Temperature Upper Notification and Association Group Control  
Size=1byte Use this to set Temperature Upper Notification report and Association Group 3 Control function  
Value = 0: disable notification and association group basic set.  
Value = 1: only notification report to lifeline group  
Value = 2: only basic set on to association group 3  
Value = 3: notification to lifeline and basic set on to association group 3  
Value = 4: only basic set off to association group 3  
Value = 5: notification to lifeline and basic off to association group 3  
Value = 6: basic set on and off to association group 3  
Value = 7: notification to lifeline and basic set on and off to association group 3.(DEFAULT)

Parameter 10 Temperature Lower Watermark value  
If the measured temperature surpasses this watermark a BASIC command is sent into Association Group 4  
size=1 bytes Use this to set Temperature Lower Watermark value to be reported by the sensor.  
Value = 0: disabled (DEFAULT)  
Value = 1~50 $^\circ\text{C}$

Parameter 11 Temperature Lower Notification and Association Group Control  
Size=1byte Use this to set Temperature Lower Notification report and Association Group 4 Control function  
Value = 0: disable notification and association group basic set.  
Value = 1: only notification report to lifeline group  
Value = 2: only basic set on to association group 4  
Value = 3: notification to lifeline and basic set on to association group 4  
Value = 4: only basic set off to association group 4  
Value = 5: notification to lifeline and basic off to association group 4  
Value = 6: basic set on and off to association group 4  
Value = 7: notification to lifeline and basic set on and off to association group 4. (DEFAULT)

Parameter 12 Humidity Upper Watermark value  
If the measured temperature surpasses this watermark a BASIC command is sent into Association Group 5  
size=1 byte Use this to set Humidity Upper Watermark value to be reported by the sensor.  
Value = 0: disabled (DEFAULT)  
Value = 1~100%

Parameter 13 Humidity Upper Notification and Association Group Control  
Size=1byte Use this to set Humidity Upper Notification report and Association Group 5 Control function  
Value = 0: disable notification and association group basic set.  
Value = 1: only notification report to lifeline group  
Value = 2: only basic set on to association group 5  
Value = 3: notification to lifeline and basic set on to association group 5  
Value = 4: only basic set off to association group 5  
Value = 5: notification to lifeline and basic off to association group 5  
Value = 6: basic set on and off to association group 5  
Value = 7: notification to lifeline and basic set on and off to association group 5. (DEFAULT)

Parameter 14 Humidity Lower Watermark value  
If the measured temperature surpasses this watermark a BASIC command is sent into Association Group 6  
size=1 byte Use this to set Humidity Lower Watermark value to be reported by the sensor.  
Value = 0: disabled (DEFAULT)  
Value = 1~100%

Parameter 15 Humidity Lower Notification and Association Group Control  
Size=1byte Use this to set Humidity Lower Notification report and Association Group 6 Control function  
Value = 0: disable notification and association group basic set.  
Value = 1: only notification report to lifeline group  
Value = 2: only basic set on to association group 6  
Value = 3: notification to lifeline and basic set on to association group 6  
Value = 4: only basic set off to association group 6  
Value = 5: notification to lifeline and basic off to association group 6  
Value = 6: basic set on and off to association group 6  
Value = 7: notification to lifeline and basic set on and off to association group 6. (DEFAULT)

Parameter 16 Switch the unit of Temperature report  
size=1 byte Use this parameter to switch from Fahrenheit to Celsius scale.  
0 - Celsius  
1 - Fahrenheit (DEFAULT)

Parameter 17 Offset value for temperature  
Use this to set Temperature error value,  
size=1 byte Range = -100-100 (0.1 $^\circ\text{C}$  step)  
-100 : -10 $^\circ\text{C}$   
...  
0: 0 $^\circ\text{C}$ (DEFAULT)  
...  
100:+10 $^\circ\text{C}$

Parameter 18 Offset value for humidity  
Use this to set Humidity error value  
size=1 byte Range = -20~20 (1% step)  
-20 : -20%  
...  
0: 0 (DEFAULT)  
...  
20:+20%

Parameter 19 Association Group 2 Setting  
Size = 1byte Use this to set Association group 2 function  
Value = 0:Disable completely  
Value = 1: Send Basic SET 0xFF when Magnet is away, and send Basic SET 0x00 when Magnet is near.(DEFAULT)  
Value = 2: Send Basic SET 0x00 when Magnet is away, and send Basic SET 0xFF when Magnet is near.  
Value = 3: Only send Basic SET 0xFF when Magnet is away.  
Value = 4: Only send Basic SET 0x00 when Magnet is near.  
Value = 5: Only send Basic SET 0x00 when Magnet is away.  
Value = 6: Only send Basic SET 0xFF when Magnet is near.

Association Group :

- Support group number:6
- Each group max. Support 5 devices
- Group 1 Lifeline
- Group 2 Door/Window sensor change send Basic Set Command
- Group 3 High Temperature Send Basic Set Command
- Group 4 Low Temperature Send Basic Set Command
- Group 5 High Humidity Send Basic Set Command
- Group 6 Low Humidity Send Basic Set Command

Command Class

Generic Device Class: 0x07 - GENERIC\_TYPE\_SENSOR\_NOTIFICATION  
Specific Device Class: 0x01 - SPECIFIC\_TYPE\_NOTIFICATION\_SENSOR

Command Classes:

- 0x5E - COMMAND\_CLASS\_ZWAVEPLUS\_INFO
- 0x85 - COMMAND\_CLASS\_ASSOCIATION
- 0x8E - COMMAND\_CLASS\_MULTI\_CHANNEL\_ASSOCIATION
- 0x59 - COMMAND\_CLASS\_ASSOCIATION\_GRP\_INFO
- 0x31 - COMMAND\_CLASS\_SENSOR\_MULTILEVEL
- 0x55 - COMMAND\_CLASS\_TRANSPORT\_SERVICE
- 0x86 - COMMAND\_CLASS\_VERSION
- 0x72 - COMMAND\_CLASS\_MANUFACTURER\_SPECIFIC
- 0x5A - COMMAND\_CLASS\_DEVICE\_RESET\_LOCALLY
- 0x73 - COMMAND\_CLASS\_POWERLEVEL
- 0x80 - COMMAND\_CLASS\_BATTERY
- 0x9F - COMMAND\_CLASS\_SECURITY\_2
- 0x71 - COMMAND\_CLASS\_NOTIFICATION
- 0x87 - COMMAND\_CLASS\_INDICATOR
- 0x30 - COMMAND\_CLASS\_SENSOR\_BINARY
- 0x70 - COMMAND\_CLASS\_CONFIGURATION
- 0x84 - COMMAND\_CLASS\_WAKE\_UP
- 0x6C - COMMAND\_CLASS\_SUPERVISION
- 0x7A - COMMAND\_CLASS\_FIRMWARE\_UPDATE\_MD

Warranty

Our Products warrants this product to be free from manufacturing defects for a period of one year from the original date of consumer purchase. This warranty is limited to the repair or replacement of this product only and does not extend to consequential or incidental damage to other products that may be used with this product. This warranty is in lieu of all other warranties, expressed or implied. Some states do not allow limitations on how long an implied warranty lasts or permit the exclusion or limitation of incidental or consequential damage, so the above limitations may not apply to you. This warranty gives you specific rights, and you may also have other rights which vary from state to state.

FCC / IC

This device complies with part 15 of the FCC and Industry Canada license-exempt RSS standard(s). Operation is subjected to the following two conditions:  
(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**FCC NOTE:** The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.  
— Reorient or relocate the receiving antenna.  
— Increase the separation between the equipment and receiver.  
— Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.  
— Consult the dealer or an experienced radio/TV technician for help.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

**Important note:** To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.