

## WiSensys® Wireless Sensor WS-DLXc

**WiSensys®: a wireless, easy to install, ready to use sensing system with data logging capability. WiSensys® is Wireless Value's product family for accurately measuring, securely transmitting and logging the output signals from a variety of sensors. The wireless sensing system consists of sensor units and an base station. The sensors measure input values like temperature, humidity and process signals and transmit the measured data over a secure wireless link to the base station. Measurement and transmission intervals can be set by means of software on a PC. This software called SensorGraph, is part of WiSensys® and is used during installation.**

### Overview


WS-DLXc detects switch contact closures and transmits data to the base station. Sensor values are sent by the receiving base station to WiSensys® PC software SensorGraph via a serial interface. Alternative digital and analogue interfaces are available, depending on base station type. The intervals for sensing and transmission are set at installation time. Values can be changed using SensorGraph running on a PC. The sensor has a unique identity and a system PIN code. Transmitted data is encrypted thereby avoiding other sensor systems or receivers to receive the data. Optionally the following values can be assigned to the sensor: Friendly Name. The sensor can locally store up to 10.000 measurements in non-volatile memory. This storage is used when a connection to the base station is not available to ensure that measurements are not lost. Whenever the sensor and base station are in range again, the data is transmitted to the base station. The distance between sensor and base station can be up to 1000 meters in case of free line-of sight. Characteristic in-building range values are between 50 and 80 meters. The sensor is powered with one 3.6V Lithium battery. With default settings of sensing and

transmission intervals, the lifetime of the battery is 3 years. WS-DLXc has variants where an external antenna and external power supply can be used. These variants can be ordered separately. External power must be used when the connected sensor is to be powered over the wires connected to the WS-DLXc.

### Features

- Measurement of pulse signals and contact closures
- Ability to store 10.000 measurements; overwrites oldest data when full
- Programmable measurement interval
- Programmable transmission interval
- Attractive ABS enclosure; other enclosures upon request
- Wall mounting possibilities included in enclosure
- Range: 1000m with free line-of-sight
- Easy to add sensors to operational system
- PC software for installation
- User replaceable battery
- Variant with external antenna
- Variant with external power

## Specifications Wireless Sensor WS-DLXc

Product number	WS-DLXc	Wireless Sensor WS-DLXc
Function	Sensor Contact closures, 1 channel	
Sensor type	External	
Input impedance	Open: < 7500 Ohm, closed: > 240K Ohm	
Overload protection	+ 40 V	
Excitation	3,3V open circuit	
Measurement interval (M)	From 1 second up, programmable from PC. Maximum 200 seconds, ( <b>default</b> 10 seconds)	
Transmission interval (T)	From 1 to 10 samples before transmission occurs, ( <b>default</b> 1. )	
Operating limits	-20°C to +80°C	
Power	1 AA 3.6V Lithium battery	
Battery life <sup>1</sup>	3 years with <b>default</b> settings for M and T 5 years with default M and T=3 samples.	
External power	Required when external sensor needs to be powered from WS-DLXc. 6V – 24V. Variant.	
Memory	10.000 measurements	
Radio standard	ETS 300 220	
Frequency	868 – 870MHz (915MHz US)	
Range	1000m with free line-of-sight	
Housing	IP65	
Color	WiSensys® Blue	
Dimensions	60(w) x 80(h) x 23(d) mm, excl. wall mount	
Networking	Dynamically adding and deleting sensors	
External antenna	Optional, sold separately. Variant.	
Alarm threshold	Minimum and maximum trip value set from PC	
Configuration	Through WiSensys® PC software SensorGraph	
Regulatory	R&TTE, CE	

1) Battery life depends upon measurement and transmission interval settings.  
The specification is subject to change without notice.  
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