/Door and window detector with including magnet



This door and window detector uses a reed relay to sense when a door or window is opened or closed and sends an alert over Wireless M-Bus/OMS.

An additional door or window can be monitored by adding an external reed relay accessory.

The sleek design allows for discreet integration in any home environment.

LAN-WMBUS-M2 | LAN-900-0010

PERFORMANCE

Three messages are sent successively if the device detects a window or door is being opened or closed, this to ensure at least one message is received by a gateway.

The battery level is continuously monitored and a low level warning is issued when the battery is nearing depletion.

MEASUREMENTS

The total number of openings and current opening status is sent periodically. The sensor also sends three messages as soon as it detects a change in status (door/window have been opened/closed). This makes the sensor ideal for integration in data collecting systems, for energy management, HVAC-control, or for knowing if doors are opened or closed.

The data from the device is protected using the AES128 encryption compliant with OMS standard.

EXTERNAL REED RELAY WITH MAGNET

Two doors or windows can be monitored with one detector with the addition of an external reed relay, available separately.

FIRMWARE

MODES	Configurable C-, T- or S-mode (selectable on order)
SEND INTERVAL	Configurable 60s - 1 hour (selectable on order)
ENCRYPTION	AES128 encryption OMS mode 5, Profile A. Configurable ON/OFF, unique key (selectable on order)
STANDARD	T1-Mode, 90 seconds, encryption ON, and as soon a door / windows has closed / opened

WARNINGS

MAGNET DETECTION	Door or window was opened or closed
BATTERY	Low battery

POWER/LIFETIME

POWER SUPPLY	ER14505 3.6V Li-SOCl2 battery
VOLTAGE	2.4 to 3.6V
LIFESPAN	14* years typical, standard configuration and operating temperature.
RADIO	14 dBm (25 mW) output power to antenna. ERP typical: 13 dBm (19.95 mW)

GENERAL INFORMATION

STANDARDS	2014/53/EU (RED) EN 13757-3/4:2013, OMS 4.0.2
MATERIAL	White, ABS
SIZE (W x L x D)	
TRANSMITTER	25.5 x 105 x 22 mm
MAGNET	16 x 65 x 18 mm

OPERATING CONDITIONS

RADIO TRANSMITTER	Max: -30°C to + 85°C Recommended +5°C to +50°C
RELATIVE HUMIDITY	None condensing

DEVICES

LAN-WMBUS-M2	Door and window device

ACCESSORIES

External cable connected reed relay
Lansen configuration USB-cable

CONFIGURATION

The MBUS mode, transmission interval and encryption can be configured using a Lansen configuration USB-cable.

** The expected battery lifetime stated is based on simulations and true measurements at 25°C and is valid to the best of our ability but not a guarantee. The calculations and measurements can be sent upon request for your reference.*

Specifications in this document are subject to change without notice.

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