


Technical Information

Power supply	2.4A/h - 3.6V type "AA" lithium internal battery
Battery life (*)	Up to 5years (samples every 10 minutes and radio signal quality at least sufficient)
Measures acquired (2 input channels)	<ul style="list-style-type: none"> Light intensity Presence in environment
Sampling interval (*)	Selectable from one minute to 24 hours (10 minutes default)
Datalogger capacity	128,000 samples (for each channel)
Working temperature	<ul style="list-style-type: none"> Operative: -30°C ÷ +60°C Warehousing: -40°C ÷ +70°C
Radio frequency	ISM 868MHz
Radio coverage 	Up to 6Km in line of sight (can be extended using WR12 battery powered routers)
Sealing	IP30
Dimensions	80x80x25mm
Weight	100g
Case material	ABS
Mounting	Fix on 2/4 points
Connections	Wireless, USB



Wireless Smart Scegliere un elemento.

The **WSD00LP** is a **datalogger** with 2 input channels to acquire light intensity and presence in area, with storage functionality of samples acquired.

The presence in area is detected also if a single movement occurs. The sampled area will be considered free if no movement will be detected in a configurable time interval (10 minutes minimum) measured starting from the last movement detected.

Datalogger periodically sends (configurable interval - 10 minutes minimum) the light intensity value, the presence in area status (occupied/free) and, in "asynchronous mode" (if event occurs), all the transitions of presence in area status from "free" to "occupied".

The device is suitable to perform Building Automation logics as:

- light intensity automatic regulation of lighting devices considering the real light flow in environment
- environment climatization considering the real "presence in area" status
- enlightenment management (on/off) considering the real "presence in area" status.

NOTE: causing the radio transmission latency (it can reach up to few seconds in case of transmission repetitions or if some routers are present in the path) the **datalogger** is not suitable to manage the automatic light switch-on when the area is occupied.

The radio module High Reliability (unique 868MHz radio technology, implementing frequency hopping on 11 channels) based on **WINECAP™ LuPo** protocol (Long Range) provides an excellent radio range, low battery consumption and the certainty of data recovery in any situation (black out/ signal obstacles).

With a backup memory onboard may store the last 128,000 samples per channel even if the wireless link is down. Samples can be downloaded using a USB connection.

Using the configuration software the sampling interval may be set and two thresholds per channel can be activated.

May be interfaced with:

- all the **basestations** of [MWDG](#) product line
- all the **basestations** of [MWLI](#) product line

If necessary, radio coverage may be extended up to 16 times using [WR12 routers](#) (battery powered repeaters with battery life up to 7 years) between the datalogger and the **basestation**.

Light intensity

Transducer type	Photodiode array
Measure range	0 ÷ 16KLux
Measure resolution	1Lux

Presence in area

Transducer type	PIR
Measure range	360° coverage - 102° horizontal angle / 92° vertical angle
Coverage	12 meters, circular
Temperature difference	≥4°C between target and environment

* battery life may be influenced by fieldwork conditions, sampling interval and system configuration. - refer to User Manual.

The features shown may be subject to change without notice.