

INDOOR

OPENINGS REMOTE

CONTROL



SMART INDUSTRY



SMART BUILDING

Ref : OPE-LAB-41NS



 17 years*

 15km*  IP30 (Indoor use)

 Local or Public Network compliant

*Depending on the operating conditions

THIS SENLAB™ D IS A SMART WIRELESS DEVICE, FEATURING THE LoRaWAN™ CONNECTIVITY PROTOCOL, EQUIPPED WITH A MAGNETIC DOOR SWITCH SET.

Designed for indoor use, this Senlab™ offers a small casing with a discreet aesthetic that makes it ideal for housing or office.

This Senlab offers best in class features such as :

- **Battery Life time up to 17 years**
- **Rich data content**
- **Radio performances**
- **Advanced set of functionalities**

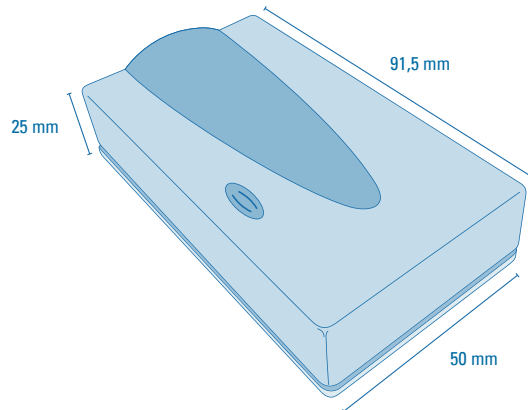
TYPICAL APPLICATIONS

- Implement activity-based service
- Control and maintain the cold chain
- Control openings state

TYPICAL SPECIFICATIONS

Physical specifications	Dimensions	50 x 91,5 x 25 mm
	Weight	70 gr
	Operating temperature	0°C to +55°C
RF specifications	RF sensitivity	-137dBm
	RF power	+14dBm (25mW)
	Radio band	868 MHz
EC Conformity : Compliant with Directive 2014/53/UE (RED)	EMC	Final draft EN 301 489-3 v2.1.1 Draft EN 301 489-1 v2.2.0
	Radio	EN 300 220-2 v3.1.1
	Magnetic field exposure	EN 62479
	Safety	EN 60950-1

DIMENSIONAL DRAWING



TECHNICAL FEATURES FOCUS

Plug & Play installation

- Double sided tape or screw mounting of door contacts (provided)
- Door contact detection up to 3 cm
- Activation with magnet (LED feedback)

High configurability of event detection and transmission

- Event notification of open and/or close state
- State detection duration configurable
- Immediate transmission or after N events or after maximum duration
- Reconfiguration possible over the air

Network configuration

- LoRaWAN parameters (OTAA or ABP activation mode, initial datarate,...)
- Encryption keys customizable by client
- Standard LoRaWAN retries support
- Radio collisions avoidance by pseudo-randomization of transmissions
- Advanced transmission reliability mechanisms (recovery of lost messages, ...)

BATTERY LIFE DURATION ESTIMATION

This following matrix provides the estimated battery lifetime depending on the average spreading factor used by the Senlab and the transmission period.

Battery life (years)	10 min	15 min	30 min	1 h	2 h	4 h	6 h	8 h	12 h	24 h
SF7	12,8	14,0	15,3	16,1	16,5	16,8	16,8	16,9	16,9	16,9
SF8	10,9	12,4	14,3	15,5	16,2	16,6	16,7	16,8	16,9	16,9
SF9	8,4	10,1	12,7	14,5	15,6	16,3	16,5	16,6	16,7	16,9
SF10	5,8	7,5	10,4	12,9	14,7	15,7	16,1	16,3	16,5	16,8
SF11	3,7	5,0	7,8	10,7	13,1	14,8	15,5	15,8	16,2	16,6
SF12	2,2	3,1	5,3	8,1	11,0	13,3	14,4	14,9	15,6	16,2

A single event per frame.

For guidance and information purposes only.