



WIRELESS TRANSMITTER FOR PASSAGE MONITORING



FEATURING THE LORAWAN™ CONNECTIVITY PROTOCOL,

INTEGRATES A PASSIVE INFRARED SENSOR FOR PASSAGE DETECTION.

Designed for indoor use, Senlab M offers a small form factor and discreet aesthetics that make it ideal for the home or work environments.

This Senlab offers best in class features as:

- Battery Life time
- Rich Data ContentRadio Performances
- Advanced set of functionalities (see on verso)

TYPICAL APPLICATIONS

Traffic stats and predition for public sites or stores
 Cleaning service management
 Workspace optimization and comfort





7 years * (replaceable battery)



15 km *



IP30 (Indoor use)

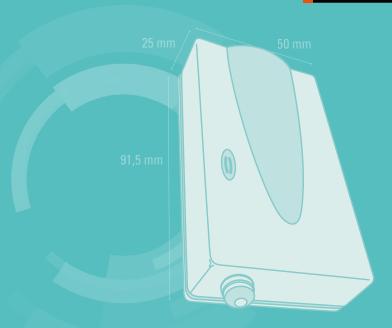


Local or Public Network compliant

TECHNICAL SPECIFICATIONS

Physical specifications	Physical dimensions	50 x 91,5 x 25 mm					
	Weight	75 gr					
	Operating temperature	0°C to +55°C					
RF spécifications	RF sensitivity	-137 dBm					
	RF power	+14 dBm (25 mW)					
	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	IEC 60950-1					

DIMENSIONAL DRAWING



TECHNICAL FEATURES FOCUS

Plug & Play installation

- Product fixing with double sided tape or screw mounting
- LED indication of passage detection during 1 hour after activation
- Activation with magnet (LED feedback)

Advanced application feature

- Set/Reset of passage number
- Log and transmit mode for battery lifetime enhancement up to 24 logs per transmission
- Stream mode
 (timestamp of each detection)
 for attendance profile analysis
- 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 (redundancy of data, 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)	10mn	15mn	30mn	1h	2h	4h	6h	8h	12h	24h
SF7	5,5	5,8	6,1	6,2	6,3	6,3	6,4	6,4	6,4	6,4
SF8	5,0	5,4	5,8	6,1	6,2	6,3	6,3	6,4	6,4	6,4
SF9	4,3	4,8	5,5	5,9	6,1	6,3	6,3	6,3	6,3	6,4
SF10	3,3	4,0	4,9	5,5	5,9	6,2	6,2	6,3	6,3	6,3
SF11	2,4	3,0	4,1	5,0	5,6	6,0	6,1	6,2	6,2	6,3
SF12	1,6	2,1	3,1	4,2	5,1	5,7	5,9	6,0	6,1	6,3

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