

LoRaWAN™ Radio transmitter for 4 – 20mA sensors - Senlab_A -



REV_C

Senlab_A is a smart sensor combining LoRaWAN™ radio communication and an analogue 4 – 20 mA input. This input is capable accurately measure with high precision the current loop information from any 4 – 20mA sensor.

Senlab_A can therefore be associated with many different sensors on the market, such as air or water pressure, air quality, weather station, brightness,... , and benefit from the wireless communication and the embedded smarts of the Senlab device such as alarms and data logging.

This wireless sensor benefits from the latest disruptive radio technologies, providing significantly longer range than conventional modulation techniques, whilst minimizing current consumption.

The 4 – 20 mA family of sensors has been an industry standard for decades. Associating it with our Senlab_A smart sensor will remove the need for expensive wired Sensor control system and makes the installation and exploitation of the devices a lot faster and easier.

Key features

- ⦿ Plug and play
- ⦿ Range: up to 15 km
- ⦿ Up to 20 years of autonomy
- ⦿ Protocol : LoRaWAN™
- ⦿ Configuration: Over the air

Products Reference	4MA-LAB-21NS	4MA-LAB-33NS
Short name	4- 20 mA sensor – Indoor use	4- 20 mA sensor - IP68
[Physical Description]		
Chassis Type	Indoor (IP30)	Outdoor (IP68)
Dimension	55 x 85 x 25 mm	56 x 102 x 35 mm + sensor
Weight	75 gr (0.17 lbs)	140 gr (0.31 lbs)
[Power]		
Battery life	Up to 10 years	up to 20 years
Battery replaceable	Yes	No
[CE Certification]		
EMC Compliance	ETSI EN 301 489-1, ETSI EN 301 489-3, EN 61000-6-2	
Radio Compliance	EN 300 220-1 V 2.4.1 (2012-05), EN 300 220-2 V 2.4.1 (2012-05)	
Magnetic field exposure	EN 62479	
Safety	IEC 60950-1	IEC 60950-1, EN 60950-22
[Environmental]		
Operating Temperature	0° to +50°C	-20° to +70°C
Storage Temperature	-40° to +85°C	-40° to +85°C