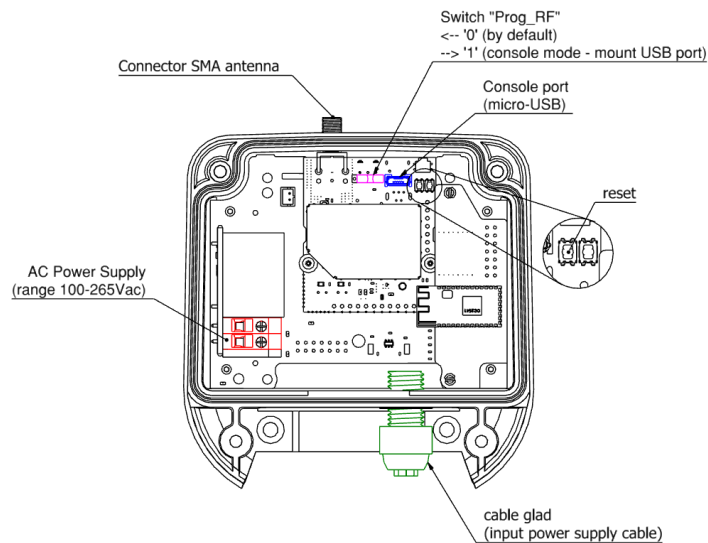# SenNet IoT Gateway Sigfox-LongNet

General description

SenNet IoT Gateway Sigfox-LongNet is a device designed to works like a Gateway to connect local LongNet remotes devices with Sigfox cloud, for at least 6 devices. It alternately sends the data from each device with period configured for the gateway.

Reference	Power supply type
Gateway Sigfox-LongNet	AC Power supply 100-265Vac

Wired & Setup

Setup parameters methods:

- By cable micro-USB with PC console enter menu to set these parameters.

Basic steps to intall:

1. Set interval to send **(by default 15 minutes)**.
2. Take note ID / PAC to sign the device on Sigfox Cloud.
3. Scan Bluetooth ID, and connect at ID : 'GW_id_sigfox', check signal from remotes devices connected throught Gateway Sigfox-LongNet.

Type Message

SenNet IoT Gateway Sigfox-LongNet is a device that connect remote LongNet devices with Sigfox cloud.

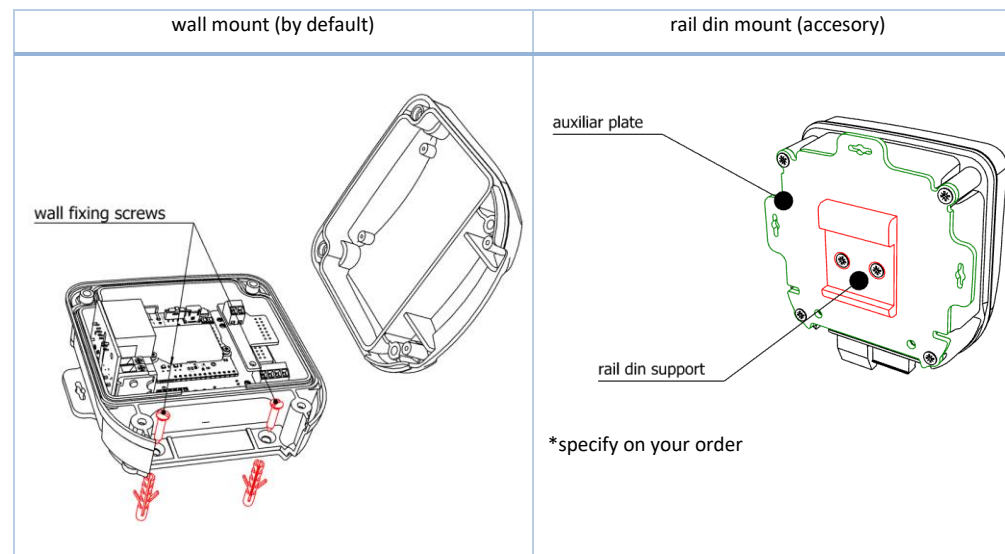| Sigfox data		
Field	**Info field**	**Data field**
Type data	*See Table 1*	Raw data from remote LongNet device
Byte	1 2	3……12

Original messages from remotes devices will be keep, only first 2 bytes must be changed.
In these initial 2 bytes, we inform that the message belongs to a remote device on the network and is being sent by a Gateway-LongNet. It contains information about the remote type and identifier within LongNet network.

Info field											
Byte	**Byte 1**						**Byte 2**				
	Type Device 01 - Easy Meter (EM) / Easy Compact Meter (ECM) 02 – Pulse Counter 03 – Not defined 04 – Enviroment Sensor 05 - PM 06 – GW Modbus 07 –**Gateway Sigfox-LongNet**	**Type Sigfox Message for remote device** type 0 (info) type 1 type 2 type 3 type 4 type 5 .. type 15	At depend of remote device	At depend of remote device **Feedback Error** (check datasheet of remote device)	At depend of remote device	**Type of LongNet Remote Device** 01 - Easy Meter (EM) / Easy Compact Meter (ECM) 02 – Pulse Counter 03 – Not defined 04 – Enviroment Sensor 05 - PM 06 – GW Modbus			**ID Remote Nodes** No Remote = 000 ID_LongNet=001b=1 ID_LongNet=010b=2 ID_LongNet=011b=3 ID_LongNet=100b=4 ID_LongNet=101b=5 ID_LongNet=110b=6 Type Message 0 (Debug) $= 111_b = 07_d$		
Bit	7 6 5	4 3 2 1	0	7 6		5 4 3			2 1 0		
	Byte1 Bit 7-6-5	**Byte1** Bit 4-3-2-1	**Byte1** Bit 0	**Byte2** Bit 7-6		**Byte2** Bit 5-4-3			**Byte2** Bit 2-1-0		

Holding case

IP Grade	IP-65
Temperature details	
Working temperature	-20ºC...+70ºC
Store temperature	-20ºC...+75ºC
Holding	
Dimensions	119 x 111 x 53 mm
Type mount	Wall or din rail
Plastic Material	ABS – V0

*If you need an upper grade contact with out support team.

wall mount (by default)	rail din mount (accesory)
wall fixing screws	auxiliar plate rail din support *specify on your order

Warranty

Satel Spain guarantees its products against all manufacturing defects for a period of 1 year.

No return of material will be accepted, nor will any equipment be repaired if it is not accompanied by a report (RMA) indicating the defect observed or the reasons for the return.

The warranty will be void if the equipment has suffered "misuse" or the storage, installation or maintenance instructions in this manual have not been followed. "Misuse" is defined as any use or storage situation contrary to the National Electrical Code or that exceeds the limits indicated in this manual.

Satel Spain declines all responsibility for possible damage to the equipment or to other parts of the installations and will not cover possible penalties derived from a possible breakdown, poor installation or "misuse" of the equipment. Consequently, the guarantee is not applicable to breakdowns produced in the following cases.

- Due to overvoltage and/or electrical disturbances in the supply.
- By water, if the product does not have the appropriate IP rating.
- For exposing the equipment to extreme temperatures, which exceed the operating or storage temperature limit.
- Due to a modification of the product by the client without prior notice to Satel Spain.

Faced with possible errors in this technical sheet, keep it updated in our website.