

# LORAWAN WIRELESS SMART BRIDGE SYSTEM CONTROLLER

Smart Bridge is the easy way to adapt any device with Modbus RS485 to lorawan. It gives connectivity to the lorawan network in a easy way. You only need to configure the modbus adresses in the app of your mobile phone, upload it in the smart bridge and the system automatically redirect the data into the lorawan network.

Lorawan allows to connect devices with distances higher than 10 Kms in LOS allowing to automate actions reducing displacements.

- Easy commissioning and maintenance through NFC communication.
- Totally open to be integrated in any platform. Ready to be deployed in the field with no need of maintenance in 10 years.



## Uses Cases

Smart Bridge allows communication via Lorawan with equipment such as:

- Sensors.
- Complex measuring systems.
- Alarm panels, PLC's or any device has a serial interface.

## Benefits & Key features

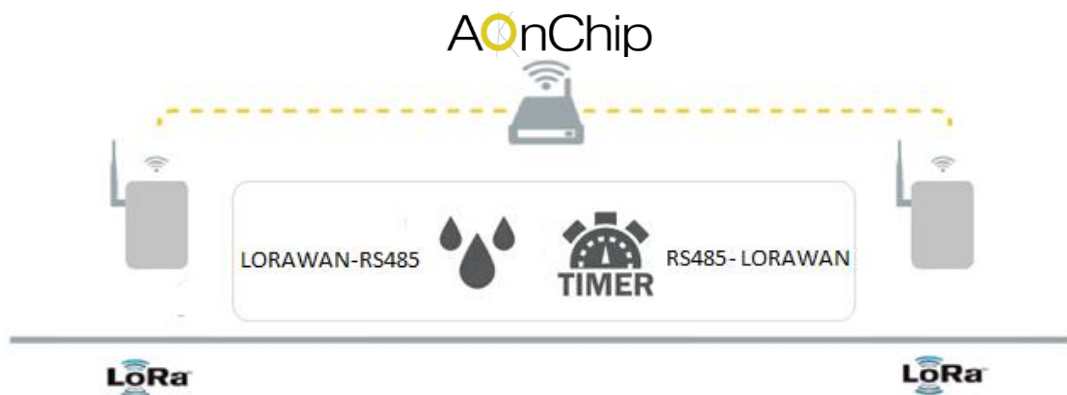
Compact dimensions ready to be deployed with different options: (pole, via screws or magnet at a metallic surface)

Easy configuration directly in the device through NFC communication -

Reduce installation times and maintenance.

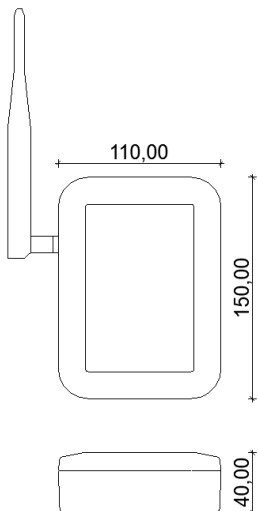
System is ready to work in a easy way with several platforms.

Long life battery



## Technical characteristics

<b>BRIDGE</b>	<p>Device to communicate with a Modbus network as a Master. Up to 4 register for different devices connected in Modbus network. Write 1 register operation</p> <table border="0"> <tr> <td>Communication parameters</td> <td>Baud rate</td> <td>[1200– 15200]</td> </tr> <tr> <td></td> <td>Stop bits</td> <td>0, 1, 2</td> </tr> <tr> <td></td> <td>Parity</td> <td>none, odd, even</td> </tr> </table>	Communication parameters	Baud rate	[1200– 15200]		Stop bits	0, 1, 2		Parity	none, odd, even
Communication parameters	Baud rate	[1200– 15200]								
	Stop bits	0, 1, 2								
	Parity	none, odd, even								
<b>LORAWAN COMMUNICATION</b>	<p>Lorawan Specification ..... v1.0.2 End device type ..... Class A Frequency plan ..... EU868,US915,CN779,AU915,AS923,KR920, IN865</p>									
<b>NFC COMMUNICATION</b>	<p>Frequency ..... 13.56Mhz Interface ..... Passive NFC</p>									
<b>POWER SUPPLY</b>	<p>Type ..... 2x Type C battery Voltage ..... 3,6[V] Maximum pulse current ..... 2500mA Life expected ..... 10 years (*)</p>									
<b>MECHANICAL FEATURES</b>	<p>Maximum wire length recommended current ..... 2m Dimensions[mm] Device 1 ..... 110x150x40 IP class ..... IP67</p>									
<b>ENVIRONMENTAL</b>	<p>Operating temperature [°C] ..... [-20 / +50] Storage temperature [°C] ..... [0 / +30]</p>									



(\*) Conditions.

- 2 irrigation operations/day
- 1 latch electrovalve connected (9V-2W).
- No external sensors connected