



# IndexView™

## LoRaWAN™ PULSE SENS'O

**PULSE SENS'O** is a LoRaWAN™ sensor radio transmitting data from any pulse meters: water, gas, electricity, energy.

It is a long range, low power consumption, high performance and high quality wireless up or down pulse sensor transmitting data from water, gas, electricity & energy meters.

**PULSE SENS'O** operates with any commercial meter products and provides connection to any wireless network using the LoRaWAN™ protocol.

**PULSE SENS'O** is available in 4 versions:

- Outdoor (IP55)
- Outdoor (IP55) – AteX Zone II compliant
- Waterproof (IP68)
- Waterproof (IP68) – AteX Zone II compliant



Powered through a lithium battery, it allows an autonomy up to 12 years when transmitting data one time per day.

# Technical Characteristics

- Easy to install and to use
- 3 pulse inputs
- Differential data compression
- IP55, IP68

LoRaWAN™ PULSE SENS'O	
RF TRANSCEIVER	<b>Frequency (MHz):</b> EU: 863-870   US: 902-928 (On demand) <b>Transmit Power (dBm):</b> +14 <b>Receiver Sensitivity (dBm):</b> -140
FIRMWARE	<b>Protocol:</b> LoRaWAN, Class A <b>Transmission cycles:</b> 10mn, 1h, 12h or defined by network <b>Data history:</b> available <b>Activation method:</b> Activation by Personalization (ABP)   Over-The-Air Activation (OTAA) <b>Data encryption:</b> AES128
SENSOR INPUT	<b>Number of inputs:</b> 3 <b>Impedance (MΩ):</b> >1 <b>Capacitance (nF):</b> 1; typical <b>Voltage (V):</b> 0 - 30 <b>Current (μA):</b> 3.5 <b>Frequency (Hz):</b> 1 - 100
POWER	<b>Power supply:</b> 3,6V / 3600mAh 3,6V lithium battery - ATEX certified (option) <b>Autonomy within a +10°C to +25°C temperature range:</b> 12 years for 1 measurement & 1 transmission per day
INTERFACE	<b>LED Indicator:</b> 3 LEDs for Configuration, Network pairing & Activity on inputs <b>Magnetic Switch:</b> Reset, ON/OFF <b>Cable connection:</b> IP55: cable connected inside the box.   IP68: 1,5m cable length – The free end of the cable must be connected in an area that is protected from moisture
MECHANICAL FEATURES	<b>Dimension (mm):</b> 84x82x85 <b>IP Class:</b> IP55 or IP68 available
ENVIRONMENTAL	<b>Operating temperature (°C):</b> -20 / +50 <b>Storage temperature (°C):</b> 0 / +30
DIRECTIVES & STANDARD	EN, 61000-4-2 EN 300-220-1 V2-4-1, EN 301 489 V1-6-1 CE and RoHS recommendation compliant

For more information and advice about our solutions, please contact us or visit our web site, we are at your service!

