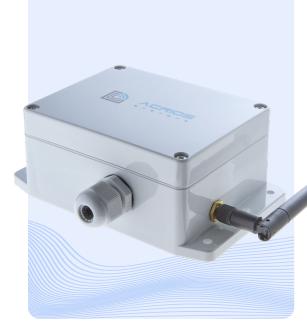


Pulse Input S0 to the LoRaWAN

Our converter with four SO inputs to LoRaWAN is designed for reading devices with the pulse outputs, such as electricity meters, water meters and other measurement devices. It enables the integration of traditional SO meters into the LoRaWAN wireless network, facilitating the data collection and analysis at intervals according to the user's needs.





- We can read any meter or device with the pulse output within your installation. The pulse output is currently one of the most common outputs on the existing meters and you can connect up to 4 devices to our unit simultaneously.
- Thanks to the possibility of local configuration via cable and the remote configuration over the network, our device significantly reduces the total cost of ownership in projects requiring frequent remote readings of the SO meters.
- The device stores the number of pulses and always sends the last 3 values in case of a network outage. Users can also set the alarm threshold values, where a message will be sent immediately regardless of the set reading interval to detect the sudden measurement anomalies.
- With our scripting interface, it is easy to implement the specific functions such as the dual-tariff measurement, continuous sampling, history storage and the remote retrieval or the time synchronization with the network.

\\ Installation, Operation and Longevity without Worries

ACRIOS Systems converters can read any meter or device with the pulse output while allowing you to connect up to four devices simultaneously. Our products have been tested within the biggest LoRaWAN networks in Europe as well as in the isolated systems.

We have the extensive set of experience

in building and operating the private LoRaWAN networks, which enables us to guarantee the maximum values utilization sent in a single message by our converters. Through our devices, it is possible to transmit both the current and historical readings for the comparison purposes.

\\ Technical specifications

General specification

145 x 90 x 55 mm Dimension

336 g with single battery / 475g with Weight

double battery

IP rating IP67

6 fixation points for mounting to the Mounting

wall, tube or collar

4x M4 pan screw and 2x oval hole for Mounting holes

zip-tie fixation

85269200 HS code

Opearting conditions

Operational temperature: -30 to +60 °C

Humidity 0 to 85% RH (non-condensing)

Regulations and certifications

Standard CE, RoHS

Device configuration

Over the cable via ACR-CONFIG and the Local device configuration configuration app

Downlink via network

configuration

Configuration via LUA scripting Configuration options

interface

LoRaWAN

Remote device

FUOTA support

LoRaWAN specification 1.0.3

Registration method OTAA by default, ABP configurable

Class A by default, B and C configurable

EU868 Frequency

12.7 dBm TX Power

51B uplink/downlink and up to 235B Maximum payload length

uplink/downlink*

* dependant on the network and spreading factor

S0 interface

A number of inputs 4

Impulse counter 32 bits = 4 294 967 295 pulses

Minimum pulse duration (ms) 30

Maximum input voltage (V) 24

Maximum pulse frequency (Hz) 33

Logical 1 range (V) More than 2 (up to 24)

Logical O range (V) Less than 1

Closed mechanical Resistance < 100kΩ contact

Resistance > $200M\Omega$ Open mechanical contact

ESD rating 16kV per Human Body Model

Euroclamp 2-piece connector Connector

with Philis screws

3.3V DC Auxiliary power supply

Message buffering, wake up on Functionality

input change

Battery specifications

D-Cell / double D-Cell Battery size

19 000 mAh / 38 000 mAh Capacity

Self-discharge <1% Rechargable No

Replacable Yes

Battery connector JST-XH 2pin

Packaging

1x S0 to LoRaWAN 1x installation manual

converter

1x LoRaWAN 2JW0315-868-C675 1x Battery antenna

Optional accessories

ACR-CONFIG Configuration cable

Ordering codes

ACR-CV-101L-I4-D SO to LoRaWAN single battery pack

ACR-CV-101L-14-D2* SO to LoRaWAN double battery pack

* Under MOO









Meziříčská 2868,