# Supercom P

## LoRaWAN® Pulse-Radio Converter



## Application

The LoRaWAN® pulse-radio converter Supercom P is suitable for remote reading of measuring devices of all kinds of supply types of measuring instruments - and transmits the consumption data to be read out via LoRaWAN®.

The LoRaWAN® pulse-radio converter Supercom P is equipped with two pulse inputs and one wire M-Bus master interface allowing to manage up to 2 M-Bus devices (slaves).

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your link to innovative metering

## Function

The Supercom P pulse-radio converter scans (detects) the pulses of one or two measuring devices, accumulates them and stores the consumption data.

Up to 2 M-Bus devices (slaves) can be connected to the wire M-Bus Master interface of the Supercom P and the data of the M-Bus devices can be read and transmitted by LoRaWAN®. This transmitted data can be defined by user.

The pulse-radio converter has additional four status inputs, two inputs each for fraud and reverse flow detection.

With the Superprog software (Android/Windows), the set of parameters of the measuring devices and the two M-Bus devices can be freely programmed via the NFC interface. The Supercom NFC read/write head (SMNFC) is required, when using Superprog Windows.

## Stored Data

- Serial number
- Identification number (serial N° of connecting devices)
- Set day
- Medium: (cold or hot water, electricity, gas, etc.)
- Current time and date, battery operating hours

- Cumulative energy, current +15 monthly values
- Fraud detection meter or pulse cable
- Reverse flow detection
- Number of counter resets
- Error code
- Firmware version
- Operating hours
- 15 monthly values

- LoRaWAN device / Join EUI

## Programming Data

- Current date, time and set day
- Medium: e.g. cold or hot water
- Unit and pulse factor unit
- LoRaWAN function active / inactive
- Transmission interval SP7-12 in minutes
- Radio activity (transmission day, start time, transmission interval)
- Selection of telegram: either short ot long telegram
- Password for secures programming access

## Technical Data

| General | Weigth | 0.350 Kg |
|---|---|---|
| | Cable routing | Through 2 cable glands |
| Mounting | Wall mounting | with 4 external screw holes |
| | Mounting on DIN-Rail | with optional mounting plate |
| Protection class | Housing | IP68 |
| Temperature | Operation | 5°C up to 55°C |
| | Storage | -20°C up to 70°C (dry environment) |
| Radio | Method | LoRa, bidirectional |
| | Power | 14 dBm (25mW) |
| | Frequency | 868 MHz (863 - 870 MHz) |
| | Protocol | EN60780-5 (M-Bus) |
| NFC-Interface | Method | ASK, bidirectional |
| | Frequency | 13.56 MHz |
| | Protocol | NFC, ISO 15693 |
| Data Memory | Flash and RAM | |
| Power supply | Battery | 3.6 V Lithium Battery |
| | Life time | Max. 6 +1 Years |
| | External power supply | 5 - 30 VDC (mandatory by using M-Bus) |
| Pulse inputs specification | Maximum frequency | |
| | ● Channel 1 | 20 Hz |
| | ● Channel 2 | 20 Hz |
| | ● Min. Pulse length | 2 ms (galvanically not separated) |

## Dimensions
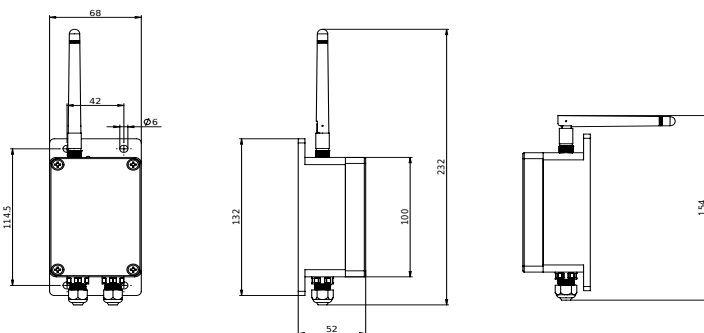


68 x 232 (154) x 52 mm

## CE Conformity

according to RED 2014/53/EU

## Technical Support

For technical support, please contact your local Sontex
agent or Sontex SA directly.

## Sontex Hotline

support@sontex.ch, +41 32 488 30 04

Specifications are subject to change without notice.