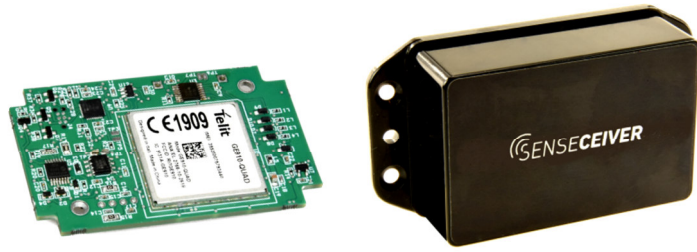


# SenseCeiver

## Wireless Sensor Gateway for Industrial Sensors

### 4-20mA, UART, GPIOs



Round Solutions Design Team

Designed and manufactured in Germany

### Product Description

The SenseCeiver Wireless Sensor Gateway has been developed specifically for **4-20mA Industrial Sensors**. It also has a **UART Interface and GPIOs**. An excellent **energy efficiency** is achieved by using energy-saving components. It has, thanks to its optimized hardware and software, a particularly low power consumption and can also be run by battery. Measure and monitor everything you need for your IoT applications via the **galvanic isolated electrically input** for sensors. Data can be sent by SMS or GPRS to a device of your choice or to a **cloud**. The SenseCeiver Wireless Sensor Gateway uses a cellular modem available with **4G, 3G or 2G** standard. After sending data it switches automatically to **sleep mode** which is controlled by a Microchip PIC microcontroller. The data are sent at preset intervals via HTTP, SMS and/or email. The SenseCeiver can be fully configured and diagnosed via SMS.

### Additional Services

Round Solutions also offers optional **Software Development Kits** for the SenseCeiver Wireless Sensor Gateway with Python that allows software developers to create custom firmware for the device quickly, resulting in the **acceleration of launch time**.

The collected data can easily be sent to an **IoT cloud** which allows a rapid establishment of the metering platform.

The GUI for the IoT cloud is available from any web browser or mobile via a smartphone or tablet.

With the **IoT SIM Cards** from Telit, a stable data transfer between the SenseCeiver and cloud can be achieved. Through global automatic roaming, it is always active in the best network.

### Interfaces

- 2x galvanic isolated current inputs 4-20mA
- 1x Micro USB connector
- GPIO interface (2x analog inputs, 2x digital inputs, 2x digital outputs)
- 1x UART interface (with hardware flow control)
- Optional Pulse Counter (FW Release is still confirmed)

### Attributes

- Power management for low power consumption
- Configurable transmission interval (Cloud, USB, SMS)
- Optimized for battery operation 12V (SLA)
- Power consumption
  - Sending 230 – 360mA
  - Active mode 1.5mA
  - Sleep mode <230µA
- Programmable Microchip PIC18LF46K22
  - 1KB EEPROM memory
  - 64 KB Program flash memory
  - 3896 bytes RAM
- Cellular Module Telit XE910 Series
- Data Communication via:
  - GPRS / HSDPA / LTE
  - SMS
- Python Memory: 1 MB NV memory for the us scripts and 2 MB RAM for the Python\* engine (only 2G + 3G)
- Ready Cloud Solutions (Telit and Cumulocity)
- Optional with GNSS (GPS and Glonass)
- Extended temperature range -40°C bis +85°C
- Dimensions: 75 x 50 x 27mm
- Nano-SIM-cardholder
- Watchdog through Microchip PIC 18LF46K22

### Available for

- EMEA
- North America
- Latin America
- APAC
- Australia

### Complete, Ready to Use Access to the Internet of Things



### Scope of Supply

- SenseCeiver Wireless Sensor Gateway
- Integrated Antenna
- Power Supply 5-28V
- Micro USB cable
- Starter SIM
- Cloud access, free up to 10 devices

### Optional Accessories

- 12V SLA battery pack for sensor and gateway-operation
- Housing IP65
- On demand IP67



### Order Code

- 2G Variant: **TER-SC-2G-KIT**
- 3G Variant: **TER-SC-3G-KIT**
- 4G Variant: **TER-SC-4G-KIT**

