



# SENSOCO<sup>®</sup>

SENSORS FOR THE INTERNET OF THINGS





## **SENSOCO SWARM GATEWAY**

Wireless IoT-Nano-Satellite Gateway  
Rev. 1.0 - 11/2021



# GLOBAL AEROSPACE IIoT

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The gateway was specially developed for the Industrial Internet of Things and establishes the connection between the earth's surface and the Swarm Internet nano-satellite fleet in lower orbit. The data is received terrestrially by the gateway via various IoT radio links and is then transported to any location on earth via the nano satellites. Encrypted and extremely efficient.

# Versatile IIoT Gateway

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For terrestrial communication, the customer can choose between various cutting-edge wireless IIoT networks such as LoRaWAN, Wireless M-Bus, MIOTY etc.

Due to the very large range of radio communication (varies depending on the network), data can be collected and send by the gateway over several to dozen of kilometres.

Customisable data visualisation dashboards stored in the EU are available.





# Features

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- Bi-directional IoT Satellite Communication
- Swarm Technologies® Nano-Sat Network
- VHF Transceiver @ 1kbps
- GPS Receiver integrated
- SRD / ISM Options: LoRaWAN, Sigfox, wMBUS
- 4 Analog Inputs: 0V -10V, 4mA - 20mA
- 2 Digital Inputs / 2 Digital Outputs (MOSFET)
- RS485 Modbus RTU Interface
- Ethernet Interface / USB-C Interface
- RTC with battery backup
- Temperature / Humidity / Pressure Sensor
- SD Card Connector for Data Storage
- Power Supply: external 5V - 25V DC
- Operating Temperature Range: -20°C to +50°C
- Enclosure: Water and shock-absorbent aluminium casing
- Dimensions: 63,5mm x 116mm x 120mm



# Applications

- Agriculture Sensor Networks
- Maritime Sensor Networks
- Environmental Monitoring
- Mobile Logistic Networks
- Remote Alarm Networks



