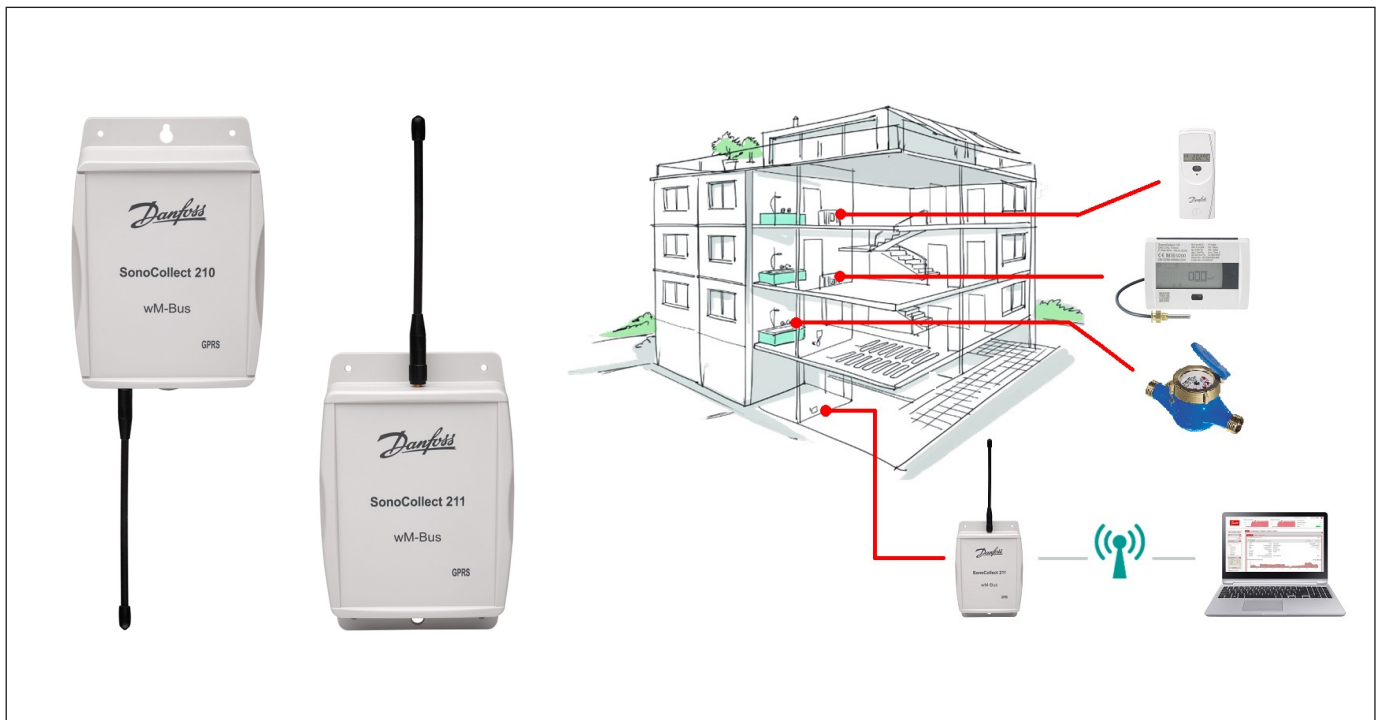


Fact Sheet

SonoCollect 210/211

Data concentrator for smart metering



Application

The SonoCollect 210/211 is a radio concentrator designed to remotely read out wM-Bus and OMS devices (868 MHz).

Installed permanently in the building, the SonoCollect 210/211 receives, stores, and uploads the received radio data to a FTP server via an integrated GSM / UMTS modem.

Features

- 868 MHz transceiver.
- Autonomous remote readout system for wM-Bus and OMS devices.
- Operating modes T1, T2, and C1 according to EN 13757-4.
- FTP upload via the integrated GSM / UMTS modem.
- Power supply with on-site replaceable lithium battery pack.
- Data backup in case of power supply breakdown.
- Easy configuration thanks to its SonoReCon software.
- Configuration and readout software included (English, French, Italian and German).
- Software for interpretation of uploaded FTP files included.
- Protection class IP 65.

Types

Order code	Model	Power supply	Modem	Configuration interface
088H2441	SonoCollect 210	Battery	GSM / UMTS	USB
088H2442	SonoCollect 211	Mains	GSM / UMTS	USB

Function

The data concentrator SonoCollect 210/211 is a radio transceiver for consumption meters (heat, water, electricity and gas) operating in modes T1, T2 and C1, according to EN13757-4.

The SonoCollect 210/211 receives the radio telegrams from the consumption meters, 7 days a week, 365 days a year, and stores them in its internal non-volatile memory of 16 MB (up to 58'000 telegrams).

According to the configuration, the stored radio telegrams are sent via an internet connection to a FTP server.

Configuration

Before or during commissioning, the SonoCollect 210/211 has to be configured using its USB interface and the SonoReCon software.

All relevant parameters like SIM card parameters, FTP server and radio reception parameters have to be set. In addition, the following parameters are available:

- Password protection
- Up to 6 global keys (AES-128)
- List of meter specific radio keys (AES-128)
- FTP file deciphering key
- Device state (time, temperature, housing, device, battery, and report)
- Device meter list
- Received meter list (meters, telgr. Mode T, telegr. Mode C, bit errors, and CRC errors)
- GSM / UMTS network information and signal strength
- General settings (device name, device text, password, set time, etc.)

- FTP server configuration (SIM-PIN, APN, user, password, FTP server, etc.)
- Radio reading and FTP upload settings
- Authorized / blocked manufacturers and device types
- Remote configuration
- Etc.

Connectivity



GSM / UMTS modem
- SIM card holder

Configuration interface
- USB

Technical specifications

Operating temperature	-20 to 60 °C
Storage temperature	-30 to 70 °C (dry environment)
Dimensions	195 x 130 x 46 mm (SonoCollect 211) 195 x 130 x 170 mm (SonoCollect 210)
Weight	640 g (SonoCollect 211) 830 g (SonoCollect 210)
Protection class	IP 65
Mounting	Wall mounting using up to 6 screws

Standards

Directives / norms	RED Directive 2014/53/EU • EN 300 220-2 V3.1.1 • EN 300 328 V2.1.1 • EN 301 489-1 V2.1.1 • EN 301 489-3 V2.1.1 • EN 301 489-17 V3.1.1 RoHS Directive 2011/65/EU • EN 50581:2013-02
CE conformity	According to 2014/53/EU (RED)

Interfaces

GSM operating modes	GPRS, EDGE, UMTS / HSPA+
Configuration	USB 2.0

Radio communication

Communication	Unidirectional
Frequency	868.95 MHz
Operating modes	T1, T2, C1 according to EN13757-4
Radio protocol	wM-Bus / OMS
Reception time	Configurable from 1 min to 24 h

Power supply

Mains (SonoCollect 211)	110 - 230 VAC, 50 - 60 Hz
Battery (SonoCollect 210)	Lithium battery pack
Note	The lifetime of the battery pack depends on the number of meters present on site, the configured reception time, the number of FTP uploads, the quality of the network and the operating temperature.

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