



# Integrated, LoRa<sup>®</sup> based radio solution for automated remote meter read out

The rapid growth of the Internet of Things (IoT) has led to new radio communication technologies specifically designed to meet the growing demand for high energy efficiency and wide reach.

## LoRa<sup>®</sup> based radio interface for sub-metering

The compact ULTRAHEAT® meters T230 and T330 have been further developed and adapted to the new requirements. For both meter types, interfaces based on LoRa® radio technology are already integrated and can be ordered as an option. They can therefore be easily integrated into your IoT networks and, thanks to OTC\*, quickly put into operation.





### Your Benefits

- Automated data transfer
- Avoid reading errors
- Improvement of data quality and quantity
- Long range
- Open standard Interoperable
- High network stability and data transmission security
- Your access to »district heating networks 4.0«





#### Technical Data

#### **Interface characteristics**

Class	A, bi-directional
LoRa® version	1.0.2
Activation	OTAA or ABP
Data Rate	DR0-DR5 (250-5470 Bit/s)

#### **Radio characteristics**

Frequency	868 MHz
Output Power	14 dBm
Receiver Sensitivity	-135 dBM

#### **Electrical Data**

Nominal Voltage	3.0 - 5.0 VDC
Power Consumption (max)	40 mA
Power consumption (sleep mode)	2.5 μΑ

#### **Configuration via NFC\* interface**

The configuration is set via free OTC\* app for Android smartphones.

With your personal access you can define individual settings and save them as configuration profiles.

\*Near Field Communication \*One-Touch-Commissioning

HALF BERGERAME	INSPECT APPEY	HISPECT APPLY
O Elvaco OTC O INSPECT APPLY	Score profile Series profile Reset values	Syncronize meter time
C C Street profile Reset values	Device Device EUI	To reset setting to factory default
Device Da Device	941454010700002F Product 9 CM94111	LoRaWAN Activation type: 💿
Product access key:	Product access key: Downloaded	Join EUS (OTAA):
Downloaded Power mode     D     hactive	Power mode: () I hactive +	
Configuration lack: ()	Configuration lock:  Open +	Communication EcoMode: ()
Syncronize meter time Using phones current time Factory reset: The To reset setting to factory default	Syncronize meter time B Using phone's current time Factory reset:	On Message format: () ()) Standard
AMONY	To reset setting to factory default	Transmit interval:  15
( 0 =	APRIX	APPLY

#### Features

#### Eco Mode

The interface has a kind of power saving mode, because it can automatically reduce the transmission interval in case of insufficient reception. The battery life of 11 years is possible and the high radio range is also preserved.

#### **Increased security**

For enhanced data security, the so-called "Configuration Lock" provides a lock that prevents unauthorised configurations. For this purpose, the customer authenticates himself in the OTC App with his user & password. No one else can now make changes to the module.

#### Simple key handling

For a secure transmission of the keys, B Meters uses a portal where the customer downloads his keys from the platform. This avoids sending the keys by e-mail and increases security.

#### Data acquisition, visualisation and analysis\*

- Access 24/7 to your meter data
- Real-time data tracking (resolution to the minute)
- Choose whether you want to look at single
   meters or larger areas
- Map views and visualisation of meter alarms
- Custom dashboard according to your individual requirements

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