

Smart Communication

for retrofitting the ULTRAHEAT heat / cooling meters

Landis
Gyr+
manage energy better



Equipment for T550 (UH50... / UC50...)

WZU-LoRa

LoRa® radio module

The compact, integrated, wireless solution for automatic remote meter reading, system monitoring and consumption-based billing





Your immediate access to digitization

The digitization of networks offers utilities the opportunity to reorient their business model, to optimize internal processes and customer service as well as to increase system efficiency.

In future, the consumption data for heat will also be automatically read out over long range stationary wireless networks, within minutes and over long distances.

The compact module is backward-compatible, which means that you can immediately upgrade all the existing meters in the field and switch to the new technology.

The meter data will be sent automatically and encrypted over a network and they will be available for individual and accurate billing or for optimizing system efficiency.

Your benefits

- Retrofit of field meters, as backwards compatible
 - ↳ Immediate change to LoRa possible
 - ↳ Simple upgrade due to Plug and Ready modules
- Energy saving
 - ↳ 11 years battery-life time at transmission interval of 60 minutes
- Easy configuration with free app
- Automated data transfer
 - ↳ Improved workflows
 - ↳ Time and cost savings
 - ↳ Avoid reading errors
 - ↳ Improvement of data quality and quantity
- Open standard - interoperable
- Long Range
 - ↳ Up to 10 km in the open field
- High network stability
 - ↳ Data security
 - ↳ Data transmission security

Your access to »District heating networks 4.0« can be implemented immediately and allows you:

- Network automation and -management
- Improved error analysis
- Optimized fault management

Technical data

Dimensions (w x h x d)	80 mm x 38 mm x 23 mm
Protection class	IP54 (EN 60259)
EMC approval	EN 301 489-1, EN 301 489-3

Electrical data

Nominal voltage	3,0 - 5,0 VDC
Power consumption (max)	40 mA
Power consumption (sleep mode)	2.2 µA

Radio characteristics

Frequency	868 MHz
Output power	14 dBm
Receiver sensitivity	-135 dBm

LoRaWAN characteristics

Device class	Class A, bi-directional
LoRa version	1.0
Activation	OTAA or ABP
Data rate	DR0-DR5 (250-5470 Bit/s)



Simple activation

After the module has been integrated in the meter and started by pressing the button or with the free app, it connects automatically to the network and initiates meter data transfer.

Flexibility

You have the choice between two types of the module:

1. with internal antenna
2. with external antenna (swivel antenna with magnetic foot or wall mount antenna)

Energy saving

The energy consumption during radio transmission is minimal, so the technology is suitable for D-cell operated meters. (e.g. 11 years battery life time at transmission interval of 60 minutes)

More data

Due to the power-saving nature of the LoRa module, data can be read out in shorter intervals and used to improve system efficiency.



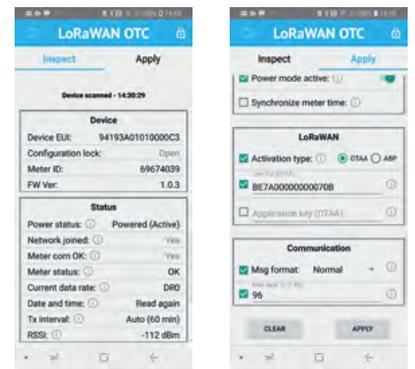
Effortless "one-touch" configuration or inspection

With the free app or downlink data, the module can be easily reset. The transmission from the smart phone to the module is contactless via NFC (Near Field Control).

Plug & Ready

Already installed meters of type T550 can also be easily retrofitted. Insert module on slot 2, switch on, ready.

Immediate change possible



About Landis+Gyr

Landis+Gyr is the leading global provider of integrated energy management solutions for the utility sector. Offering one of the broadest portfolios, we deliver innovative and flexible solutions to help utilities solve their complex challenges in smart metering, grid edge intelligence and smart infrastructure. With sales of USD 1.8 billion, Landis+Gyr employs approximately 6,000 people in over 30 countries across five continents, with the sole mission of helping the world manage energy better.

More information is available at www.landisgyr.eu.

Landis+Gyr Center of Competence Heat in short

- “Made in Germany” - own development, manufacturing and sales
- Since 1983 experiences with ultrasonic thermal energy meters
- Operations on all five continents
- Order-related production depending on individual order codes
- Modularity and software optimization leads to fast reaction times on orders
- Certified acc. to ISO 9001, 14001 and EC Directive D + H1 (MID)
- State-approved test center
- Service-Center for revisions and repairs
- Committed to improved energy efficiency and environmental conservation
- Solid and established partner network

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