

Remote reading from water and energy meters



Wireless data acquisition from residential or industrial water, electricity, gas and heat meters

Remote reading benefits

- Reduced operating costs - saves human forces for physical readings
- eliminates reading errors caused by workers
- does not disturb the privacy of customers
- eliminates the risk of accidents during reading in dangerous areas
- The possibility of more frequent billing from actual consumption
- Higher frequency of reading – opens chances to implement more time or volume depending tariffs, changing customers behavior
- Easy implementation of readings into the billing system
- Data ready for various Apps for customers and suppliers – Web, Email, SMS
- Daily checks of volumes and bills
- Identification of accidents and non-standard consumptions in distribution network
- Actual data and infos for customers complaint solving
- Identification of Hi/Lo volume limits – easier searching for failures and leaks on the supplier's grids

Final design

- Produced as compact, external and built-in modules (heat meters)
- Optical, inductive, impulse sensors and the M-bus available
- Variants: - **SG** Sigfox, - **LR** LoRa, - **NB** LTE NB-IoT

New technology

SIGFOX, LoRa, LTE NB-IoT

- low purchase price
- Low operating costs
- Suitable for small portions of data
- Battery lifetime 5 – 12 years (1 – 4 messages/day)
- Transmission directly to the server and to the Internet without retranslation (over operator's infrastructure)
- Widespread signal coverage also abroad



Gasmeters

GX-SG (FL-SG-bk) / GX-LR / GX-NB unit for gasmeters
ELSTER / PREMAGAS BK-G series with ATEX certification

GX-SG (FL-SG-bk) unit on gasmeter
ELSTER / PREMAGAS BK-G4



Module IM6-NB for heat meter
Kamstrup Multical 602

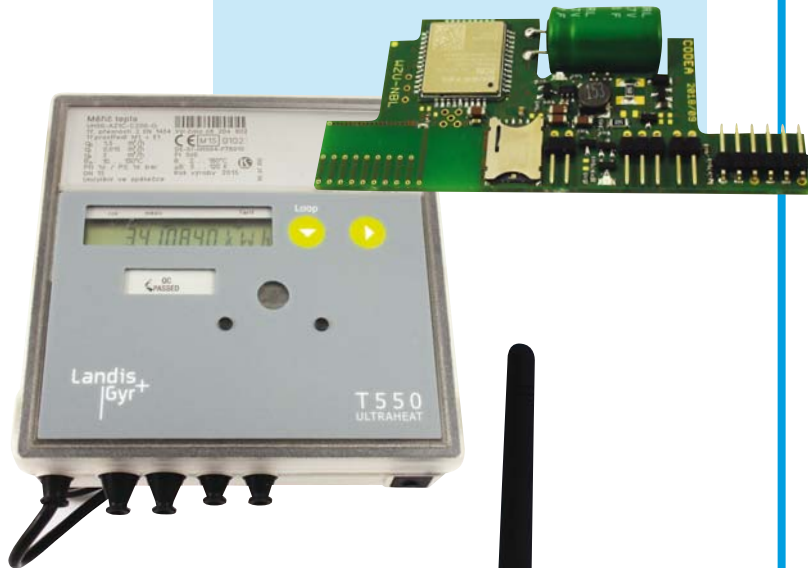
Module IM63-NB
in heat meter
Kamstrup
Multical 603



Heat meters

Modules for heat meters **KAMSTRUP, LANDIS+GYR**
IM6-SG / IM6-LR / IM6-NB for Multical 601,602,802
IM63-SG / IM63-LR / IM63-NB for Multical 403,603,803
WZU-SGL / WZU-LRL / WZU-NBL for Ultraheat (UH50)
T550

Module WZU-NB for heat meter
Landis+Gyr Ultraheat T550



Universal unit

Stand-alone impulse / alarm / analog / MBUS unit
FLX-SG / FLX-LR / FLX-NB for flowmeters, electricity meters, heat
meters (MBUS), pressure sensors, security, ...

FLX-NB unit



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