

Ultrasonic Heat Meter / Cooling Meter
Residential

Landis
Gyr+
manage energy better



Ultrasonic Heat Meter / Cooling Meter

The Evolutionary

**ULTRAHEAT / ULTRACOLD
T330**

Proven technology
one step further

COMPACT

Versatile installation options

The extremely compact design of the T330, as well as the rotatable and detachable calculator simplify the installation of the meter and facilitate reading. Even there where is a lack of space, such as for example in narrow meter cabinets or poorly accessible places, the T330 can be used effortlessly.

UNIVERSAL

Extended application

The T330 can be used in heating or cooling systems with water as heat or cold transfer medium. It is particularly suitable for individual consumption measurement in apartments. Due to the all-metal design of the flow part (measuring unit), it is also used in applications with higher temperatures (130°C).

It's always the right meter for all situations.

ECOLOGICAL

Transport without restrictions

The T330 is powered by batteries with low lithium content and is therefore not hazardous goods.

The compact packaging saves space in the warehouse and also during shipping. That saves money and reduces emissions.

PROVEN

Platform strategy

Recognized and well-proven meter components have been improved and combined into a new concept. The precision of the measuring unit and the consistent operating concept of the calculator ensure familiar handling of the T330, such as installation, operation and readout.



Retaining the proven to create something new.

The ULTRAHEAT®T330 combines the proven technologies of ULTRAHEAT meters and thus covers a wider range of individual consumption metering in apartments, local heating or building technologies.



- Heat Meter
- Cooling Meter
- Combined Heat / Cooling Meter

Features

- Ultrasonic thermal energy meter with state-of-the-art technology
- Insensitive to soiling and deposits
- Fast, intelligent measurement for all applications
- Flat, detachable calculator
- Temperature range: 5-130 °C
- Short measuring intervals and high load capacity
- Measuring of smallest flows
- Data storage for 24 months
- 2 monthly set days (middle of month)
- Fast and safe installation
- No straight lengths of pipe or flow strengtheners required
- Comply with the strict European Directive (class 2)
- Fast communication
- Precise, resistant, non-wearing

Technical data

Approval	MID (EN 1434:2016), cooling national	Nominal flow q_p	0.6	1.5	2.5	[m ³ /h]
Protection class	IP 54 / (IP65)*	Max. flow q_s	1.2	3.0	5.0	[m ³ /h]
Display LCD	10 mm high symbols	Min. flow q_i	6	15	25	[l/h]
Temperature range *	5 ... 105 [°C]	Operating limit	1.2	3	5	[l/h]
Temp.-difference ΔT	3 ... 80 [K]	Mounting length	110 / 190	110 / 130 / 190	130 / 190	[mm]
Nominal pressure	PN16, (PN25) [bar]	Thread connection	G $\frac{3}{4}$ / G1	G $\frac{3}{4}$ / G1 / G1	G1 / G1	--

* flow part



Heat Meter - ULTRAHEAT®
Cooling Meter - ULTRACOLD®
Combined Heat / Cooling Meter

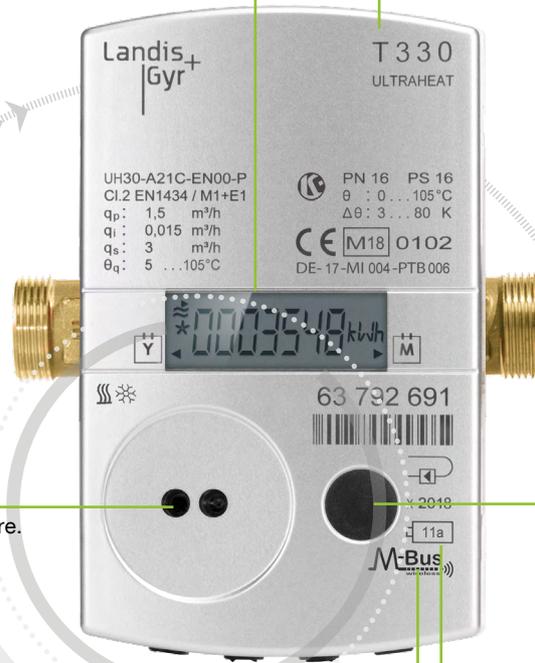
Comprehensive Display
 with large numbers and simple symbols. That allows fast reading and easy orientation in the individual display loops.



All-metal measuring unit
 Therefore the T330 fulfills further residential applications. The robust measuring unit withstands higher temperatures and mechanical stress and is resistant to abrasion.



Optical interface
 for meter reading directly on site. The magnetic optical head is simply installed and the meter can easily be parameterized or read-out with the free service software.



DuraSurface™
 The innovative internal profile ensures that deposits or dirt particles in the medium do not influence the measuring accuracy and avoid wall reflections. This additionally optimizes the long-term behavior of the thermal energy meter.



Communication interfaces
 All options can be configured according to individual requirements.



M-Bus interface (optional), with cable length 1.5 m, preassembled, EN 13757-2 and 13757-3



wireless M-Bus interface (optional), 868 MHz, with internal antenna, preassembled, EN 13757-4 and OMS (Open Metering Standard)



Pulse interface (optional), passive, with cable length 1.5 m, 2 channel, preassembled, EN 1434-2 Klasse OB/OC

Intuitive and easy handling
 The required information for the user, the maintenance, the installer and the system test are quickly set with a button.

11 years battery-lifetime
 also with radio walk-by

RELIABLE

Excellent measuring stability

The T330 has a full-metal measuring unit without moving parts in the measuring channel and is equipped with the special internal profile DuraSurface™. This makes it insensitive to soiling and ensures failure-free operation with constant measuring accuracy over many years.

INTELLIGENT

New advanced features

ADAPTIVE MEASURING INTERVAL

The T330 automatically adapts to the situation and switches to a short, optimal temperature measurement interval.

TEMPERATURE COMPENSATION

The temperatures of the heating water have an influence on the measurement of the volume.

For a heat measurement of the highest precision, the T330 also compensates the specific temperature influences on the ultrasonic measurement.

MANUAL PARAMETERIZATION

The most important parameter settings, such as the setting of M-Bus addresses, can also be carried out directly at the meter using the service button without the use of tools such as service software and optical heads.

STATISTICAL VALUES

The T330 determines maxima of temperatures, flow and power on a monthly basis and total, thus allows a detailed analysis of the system.

MONTHLY VALUES, DUE DATES

Two programmable due dates allow both, monthly values and values of the middle of the month, to be recorded.

About Landis+Gyr

Landis+Gyr is the leading global provider of integrated energy management solutions for the utility sector. Offering the broadest portfolio of products and services to address complex industry challenges, the company delivers comprehensive solutions for the foundation of a smarter grid including; smart metering, distribution network sensing and automation tools, load control, analytics and energy storage.

Landis+Gyr operates in over 30 countries across five continents. With annualized sales of more than US\$1.5 billion, the company employs 5,700 people with the sole mission of helping the world: manage energy better.

More information is available at 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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