



Ultrasonic Heat Meter

ULTRAHEAT T350 (2WR6...)

A customer tailored, accurate and reliable heat meter especially designed for residential applications

Highest measurement accuracy

The ULTRAHEAT T350 Heat Meter was specifically designed for the varied residential applications and works with the proven ultrasonic measurement technology of Landis+Gyr giving the highest accuracy, no maintenance and stable measurement for years and years. The flow rate is measured by the ultrasonic dragging principle, where two transducers alternatively transmit ultrasonic signals in and against the direction of flow. From the difference between the measured propagation times, the flow rate can precisely be calculated.

Future-proof and durable

The measuring tube of the ULTRAHEAT T350 has a robust all-metal design and is fitted with the special internal profile DuraSurface. Interfering reflections in the measurement channel are filtered out from the outset.

That makes the meter more resistant to dirt deposits.

The advantages are obvious: technical superiority and no wearing parts. It is the excellent reliability that counts.

Easy mounting and handling

The ULTRAHEAT T350 is easy to install and to handle, it does not require straight lengths of pipe or flow strengtheners and can be installed any way round. The mounting orientation does not affect the measuring accuracy or the measuring dynamics.

The Heat Meter is insensitive to small particles in the water and operates silently.

Comprehensibility

The readouts on the generously sized display are clearly structured and easy to understand, divided into an easily accessible customer area and a service area. Not only instantaneous values but also set day values and monthly values can be shown. Display of all consumption values facilitates traceability and heat billing.

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Customer tailored Ultrasonic Heat Meter for residential applications

Our ULTRAHEAT T350 heat meters are not only accurate and permit easy billing but they are also absolute reliable, long-life and low-cost in demand in building services technology. These heat meters offer you all that – especially for your individual residential needs.



Performance Features

High measuring accuracy and – reliability due to proven ultrasonic technology

Nonwearing – requires no mechanical moving parts

Measuring range of flow: 1:1000 acc. to EN 1434

Total range: 1:500

Any mounting orientation, mounting in return or in flow

No straight lengths of pipe or flow strengtheners required

yearly set day

15 monthly values

Battery operated up to 11 years

24 V AC/DC external supply as special version

Optical interface acc. to IEC870 (M-Bus)

Modules: Pulse Output or M-Bus

Self-diagnostics

Technical Data

Approval	EN 1434 Class 3				
Protection class	IP 54/ (IP65)				
Display LCD	7-digit				
Physical units	kWh / MWh or MJ / GJ				
Temperature range	(C°)	5-105			
Nominal pressure	PN (bar)	PN16, PN25			
Max. Diff. of Temp.	(K)	80			
Min. Diff. of Temp.	(K)	3			
Switch-off limit	(K)	0.2			
Nominal flow rate	qp (m3/h)	0.6	1.5	2.5	
Max. Flow	qs (l/h)	1200	3000	5000	
Min. Flow	qi (l/h)	6	15	25	
Operating limit	(l/h)	2.4	6	10	
Mounting length	(mm)	110/190	110 /130/190	130/190	
Thread connection		G ^{3/4} /G1	G ^{3/4} /G1/G1	G1/G1	
Pressure drop at mounting length 110 qp (mbar)	(mbar)	150	150	--	
Pressure drop at mounting length 130 qp (mbar)	(mbar)	--	160	200	
Pressure drop at mounting length 190 qp (mbar)	(mbar)	150	160	200	

Communication

M-Bus, with 1.5m cable connected, with galvanic isolation

Voltage:	50V max.
Current:	1.3 M-Bus leads
Addressing:	primary or secondary
Permitted mean frequency of reading:	once with 3h @ 2400 bd, once with 24h @ 300 bd

Pulse Output for energy or volume, with 2m cable connected, with galvanic isolation

Pulse significance:	1 pulse per kWh or MJ respective 1 pulse per 100 Liter
Pulse length:	100ms
Energy / Volume:	specify in order or change with Service-Software
Voltage:	max 30 V
Current:	max 30 mA
Classification:	OB (acc. to EN 1434-2)
Voltage drop:	ca. 1.3V at 20 mA
Dielectric strength:	500 V _{eff} against ground



Tailored selection – the temperature sensor
ULTRAHEAT T350 works with permanently connected Pt 500 temperature sensors. Depending on individual customer we can supply not only the standard sensor Direct Short M10 x 27.5 mm for direct installation but also 5.2 x 45 mm sensors for pockets – with cable length of 1.5 m or 5m. Installation accessories are available for the flow sensor whereas the return sensor is already mounted in the volume measuring unit.

Big features in a small space – the calculator
With its compact calculator, the ULTRAHEAT T350 heat meter easily fits into any mounting box. For optimum readability, it can be rotated on the measuring tube and can also be mounted up to 1m away even in the series version. The mounting plate can be used as a wall holder. The electronic unit also features an optical interface and options for remote reading, such as M-Bus or pulse output.

Tested and proven over many years
Since more than two decades the Landis+Gyr Ultrasonic meters have been successful in tough district- and residential heating applications.

The high measurement stability and reliability have been proven 100-thousand times in the field.

Quality “Made in Germany” – reliable, individual and innovative

Manage energy better

We deliver peace-of-mind when it comes to managing your energy. Decades of leadership in technology and in-depth knowledge at Landis+Gyr means we are able to offer you an extensive, high quality and proven portfolio.

Obtaining the highest level of energy efficiency has never been easier. We have translated our unique expertise of utility processes into an integrated energy management solution, Gridstream. We can help you streamline your processes, increase customer loyalty and secure revenue. Gridstream packages our AMM offering, meeting your needs today and in the future.

Let us tailor our innovative solutions to meet your specific needs. Whether electricity, water, heat/cold, gas metering or load management, we provide what you need to ensure that your energy is managed with increased precision and reliability.

With Landis+Gyr as your trusted partner, you can manage energy better

Landis+Gyr in short

- 5000 employees worldwide
- Operations on all five continents
- Broadest portfolio of products and services in the industry
- 25 years of smart metering experience
- 1000 AMM systems delivered
- 300 million energy meters produced
- Largest relevant engineering capacity in the industry
- 60 years of direct load management experience
- 15 million load management receivers produced
- ISO certified for quality and environmental processes
- World leader in integrated energy management solutions
- Committed to improved energy efficiency and environmental conservation
- Solid and established partner network

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