

Heating and Cooling Meter  
Heating Plants, Commerce and Industry

Landis  
Gyr+  
manage energy better



Ultrasonic Heating and Cooling Meter

## ULTRAHEAT/ ULTRACOLD qp 150

The new dimension:  
flow part with  
exchangeable measurement insert



## New dimension - new concept - proven technology

Particularly for the sophisticated applications in the industry, large residential buildings or heating plants, the ULTRAHEAT®-family was extended by the nominal flow size of qp 150.

The redesigned ULTRAHEAT qp 150 works with the high-precision and proven ultrasonic technology and can flexibly be used as a heating-, cooling- or flow meter.

The special feature is the exchangeable measurement insert, which significantly simplifies maintenance and recalibration and reduces life-cycle costs simultaneously. The flanged body remains permanently in the system – without any influence on the measuring accuracy and stability. This distinguishes the new ULTRAHEAT from similar measuring devices.

The entire flow part is made of high-quality and corrosion-resistant stainless steel.



### Features

- L+G ultrasonic technology, proven - precise - stable
- Maintenance-free - without any moving parts
- Simply exchangeable measurement insert - without removing the flanged body - no special tooling necessary
- Cost-saving recalibration with lowest mounting effort - very low operating and switching costs
- High-quality V4A stainless steel construction, robust - durable - corrosion-resistant
- No mounting restrictions and no straight pipe sections required, shaft fitting possible (flow part)
- Full functionality of T550 (UH50...) or T150 (2WR7...)
- T550 with power supply or battery for up to 16 years

### Technical Data

Length	500	mm	Nominal flow $q_p$	150	m <sup>3</sup> /h
Connection	DN150 flange		Maximum flow $q_s$	300	m <sup>3</sup> /h
Pressure range	PN16/ PN25		Minimum flow $q_l$ (1:100)	1500	l/h
Protection class (flow part)	IP68		Response threshold	600	l/h
Temperature range	5 - 130	°C	Overload flow	2.8 x $q_p$	
Permanent temperature	130	°C	Metrological class	1:100	
Pressure loss at $q_p$	< 120	mbar	Accuracy class	2	
			Environmental class	E1 and M1	

### High flexibility with low life-cycle costs - exchangeable measurement insert

The calibrated measuring unit consists of the measuring channel, the sealing plate with the proven ultrasonic transducers and the adjusted electronic of the T550 (UH50...) or T150 (2WR7...). The flanged body itself has no influence on the measuring accuracy or stability and remains permanently in the system. For recalibration only the lightweight measurement insert needs to be exchanged. This can easily be done by one person and without any special tooling, reducing life-cycle-costs tremendously.



### Innovations of new dimension

Already during the construction phase of a system the flanged body with interim cover can be used as a spacer. The innovative measuring technology can be installed right before start-up of the system. The demounting of the flanged body is omitted because it remains in the system permanently. Only the measurement insert will be exchanged with a few steps. This saves costs during installation and during every calibration exchange.



### Waterproof- The flow part

The flow part and the measurement insert consist of high-quality stainless steel and are IP68 approved. The electronic unit with a maximum cable length of 5 m can be mounted separately. This allows operation even under harsh environmental conditions. The functionality of the electronic unit is identical with those of other nominal sizes. It requires no new products in terms of service and communication.



## Manage energy better

Landis+Gyr is the leading global provider of integrated energy management products tailored to energy company needs and unique in its ability to deliver true end-to-end advanced metering solutions. Today, the Company offers the broadest portfolio of products and services in the electricity metering industry, and is paving the way for the next generation of smart grid.

Landis+Gyr, an independent growth platform of the Toshiba Corporation (TKY:6502) and 40% owned by the Innovation Network Corporation of Japan, operates in 30 countries across five continents, and employs 5,000 people with the sole mission of helping the world manage energy better.

More information is available at [www.landisgyr.com](http://www.landisgyr.com).

### 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
- 65 years of direct load management experience
- 25 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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