

# ULTRAHEAT T550 (UH50)



## Heat Meter - Cooling Meter - combined H / C Meter

The ULTRAHEAT@T550 (UC50...) calculator is a real all-rounder. It was specifically designed for different applications of heating and cooling measurement. Additional features allow also using it as a multi-tariff or a glycol meter\*.

\*(only acc. EN1434, not calibrated).

### At a glance

- Ultrasonic technology - no moving parts, no mechanical wear
- All-metal volume measuring components
- Robust transducers construction
- No straight lengths of pipe required - any mounting orientation
- Two push-buttons for easy handling
- Manual parameterization without tools or software
- Two slots for communication modules
- Logbook for easy diagnosis
- Allows data from 60 previous months to be read
- Wealth of tariff functions allow the unit to be customized to individual requirements
- Batteries have service-life up to 16 years
- Power supply units available from 24 V AC/DC to 230 V
- Automatic self-diagnostics and fault detection
- Optional extra: programmable data logger for system monitoring
- Free service software UltraAssist
- Complies to the strict European MID

## Technical Data

### General

Approval	<b>EN 1434 class 2 / 3</b>		
Protection class (flow part)	<b>IP 54/ (IP65)</b>		
LCD	<b>7-Digit</b>		
Energy units	<b>kWh / MWh or MJ / GJ</b>		
Temperature range	<b>5-130</b>		<b>[°C]</b>
Max. diff. of temp.	<b>120</b>		<b>[K]</b>
Min. diff. of temp.	<b>3</b>		<b>[K]</b>
Switch-off limit	<b>0.2</b>		<b>[K]</b>

### Threaded Connection

Nominal flow q <sub>p</sub>	<b>0.6</b>	<b>1.5</b>	<b>0.6</b>	<b>1.5</b>	<b>2.5</b>	<b>2.5</b>	<b>3.5</b>	<b>6.0</b>	<b>10</b>	<b>[m<sup>3</sup>/h]</b>
Maximum flow q <sub>s</sub>	<b>1.2</b>	<b>3.0</b>	<b>1.2</b>	<b>3.0</b>	<b>5.0</b>	<b>5.0</b>	<b>7.0</b>	<b>12</b>	<b>20</b>	<b>[m<sup>3</sup>/h]</b>
Minimum flow q <sub>i</sub> (1:100)	<b>6</b>	<b>15</b>	<b>6</b>	<b>15</b>	<b>25</b>	<b>25</b>	<b>35</b>	<b>60</b>	<b>100</b>	<b>[l/h]</b>
Response threshold (variable)	<b>2.4</b>	<b>6</b>	<b>2.4</b>	<b>6</b>	<b>10</b>	<b>10</b>	<b>14</b>	<b>24</b>	<b>40</b>	<b>[l/h]</b>
Length	<b>110</b>	<b>110</b>	<b>190</b>	<b>130/190</b>	<b>130</b>	<b>190</b>	<b>260</b>	<b>190/260</b>	<b>300</b>	<b>[mm]</b>
Thread	<b>G¾</b>	<b>G¾</b>	<b>G1</b>	<b>G1</b>	<b>G1</b>	<b>G1</b>	<b>G1¼</b>	<b>G1¼</b>	<b>G2</b>	<b>--</b>
Pressure loss at q <sub>p</sub>	<b>150</b>	<b>170</b>	<b>150</b>	<b>160</b>	<b>200</b>	<b>210</b>	<b>55</b>	<b>190/140</b>	<b>130</b>	<b>[mbar]</b>

### Flanged Connection

Nominal flow q <sub>p</sub>	<b>0.6</b>	<b>1.5</b>	<b>2.5</b>	<b>3.5</b>	<b>6.0</b>	<b>10</b>	<b>15</b>	<b>25</b>	<b>40</b>	<b>60</b>	<b>[m<sup>3</sup>/h]</b>
Maximum flow q <sub>s</sub>	<b>1.2</b>	<b>3.0</b>	<b>5.0</b>	<b>7.0</b>	<b>12</b>	<b>20</b>	<b>30</b>	<b>50</b>	<b>80</b>	<b>120</b>	<b>[m<sup>3</sup>/h]</b>
Minimum flow q <sub>i</sub> (1:100)	<b>6</b>	<b>15</b>	<b>25</b>	<b>35</b>	<b>60</b>	<b>100</b>	<b>150</b>	<b>250</b>	<b>400</b>	<b>600</b>	<b>[l/h]</b>
Response threshold (variable)	<b>2.4</b>	<b>6</b>	<b>10</b>	<b>14</b>	<b>24</b>	<b>40</b>	<b>60</b>	<b>100</b>	<b>160</b>	<b>240</b>	<b>[l/h]</b>
Length	<b>190</b>	<b>190</b>	<b>190</b>	<b>260</b>	<b>260</b>	<b>300</b>	<b>270</b>	<b>300</b>	<b>300</b>	<b>360</b>	<b>[mm]</b>
Flange	<b>DN20</b>	<b>DN20</b>	<b>DN20</b>	<b>DN25</b>	<b>DN25</b>	<b>DN40</b>	<b>DN50</b>	<b>DN65</b>	<b>DN80</b>	<b>DN100</b>	<b>--</b>
Pressure loss at q <sub>p</sub>	<b>150</b>	<b>160</b>	<b>210</b>	<b>55</b>	<b>140</b>	<b>130</b>	<b>110</b>	<b>105</b>	<b>160</b>	<b>115</b>	<b>[mbar]</b>

## Benefits

- Enhanced flexibility for system management and tariff calculations
- Cost-efficient AMR possibilities
- Benefit from the most comprehensive functionality offering in the market
- Excellent Total Cost of Ownership due to optimal technologies used (long lifetime and maintenance-free design)
- Maximizing effectiveness of a smart metering rollout through integration of reliable, interoperable and future-proof solutions that will secure your investments and enhance profitability

## Highlights

- Top measurement accuracy and stability proven by longest track record of field installations
- Special internal profile; DuraSurface™ makes the flow part insensitive to small particles in the water
- Easy data collection and processing

