



ELIS PLZEŇ a.s.



**HEAT/COLD METERS IN WATER
ELISTHERM ET3020.7**

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Systems ELISTHERM ET3020.7 heat/cold meters are intended for measurement of absolute heat or cold energy delivered to customer plants or otherwise consumed in closed hot/cold water heating/cooling systems. The ELISTHERM ET3020.7 heat/cold meter measures and stores information of heat/cold quantity calculated from the water temperatures, which are measured at the input and output piping by means of coupled resistance temperature sensors Pt100 (Pt500) and the heating/cooling water flow rate by a flow ultrasonic meter, which is located at the input or output of pipe.

Systems ELISTHERM ET3020.7 heat/cold meters are delivered in following configuration:

- Calorimetric counter
- Couple resistance of temperature sensors Pt100 (Pt500)
- Ultrasonic flow meter SONOELIS SE4011

METER SPECIFICATIONS

| | |
|---|---|
| temperature range of flow meter | 0° to 150° C (32° to 302° F) |
| min. temperature difference of calorimetric counter | 2° (35.6° F) |
| nominal diameter of flow meter | DN200 to DN1200 (8" to 48") |
| flow meter position | input or output piping |
| accuracy class | 2 |
| communication of the system | M-Bus |
| power supply of flow meter | 230 V AC |
| power supply of calorimetric counter | 230 V AC or battery |
| protection class calorimetric counter | IP54 |
| protection class flow meter | IP65 |
| ambient temperature | 5° to 55° C (41° to 131° F) |
| optional accessories of calorimetric counter | com. line MODBUS, RS485 pulse, radio, GSM output |
| optional accessories of flow meter | temperature of water 180° C (356° F) |

ET3010.0 HEAT/COLD METER APPLICATION

