**Installation:**

**ETO2 thermostat installation:**
DIN-rail mounting in electrical cabinet, mounting box, or on a wall surface.

**ETOG ground sensor installation:**
Should be installed where the worst snow and ice problems normally occur. The sensor should be embedded in a concrete base on a hard surface with the top of the sensor flush with the surface. Where an asphalt surface is used, or where easy installation is desired, installing ETOG-56 together with ETOK-1 is the obvious choice.

**ETOR gutter sensor installation:**
Should be installed in the gutter or down pipe on the sunny side of the building. The sensor contact point must be aligned in the direction of the melt-water flow. Where necessary, two sensors can be connected in parallel.

**ETF outdoor temperature sensor installation:**
Should be installed beneath the leaves on the northern side of the building.

---

**Technical Data:**

**Thermostat ETO2-4550:**
- Supply voltage: 120-240V ±10%, 50/60Hz
- Temperature range: 0/+10°C
- Built-in timer for manual snow melting / afterrun: 0-18 hours
- Output relays: 3x16A potential-free relays
- 2-zone application: Via 2x16A potential-free output relays
- Hydronic system: Control of 3 or 4 way valve, primary pump, secondary pump
- Display: Graphic, backlit
- Ambient temperature: 0/+50°C
- Housing/incl. cover: IP20
- Weight: 495g
- Dimensions excl. cover (H/W/D): 90/156/45mm
- Dimensions incl. cover (H/W/D): 170/162/45mm
- LED indication:
  - ON/Green: Thermostat energized
  - Error/Red: Fault

**ETOG-55 Ground sensor:**
- Measurement: Moisture and temperature
- Installation: Outdoor surface
- Housing: IP68
- Ambient temperature: -50/+70°C
- Dimensions: H32, Ø60mm

**ETOG-56/ETOK-1 embedded ground sensor:**
- Measurement: Moisture and temperature
- Installation: Outdoor surface
- Housing: IP68
- Ambient temperature: -50/+70°C
- Dimensions: H32, Ø60mm
- Dimensions, tube: H78, Ø63.5mm

**ETOR-55 Gutter sensor:**
- Measurement: Moisture
- Installation: Gutter or down pipe
- Housing: IP68
- Ambient temperature: -50/+70°C
- Dimensions (H/W/D): 105/30/13mm

**ETF-744/99 Outdoor sensor:**
- Measurement: Temperature
- Installation: Wall surface
- Housing: IP54
- Ambient temperature: -50/+70°C
- Dimensions H/W/D: 86/45/35mm

**All products:** 3-year warranty from production date
Energy-efficient control of ice and snow melting

An intelligent all-in-one solution for ice and snow melting suitable for any application which uses hydronic or electric heating. Optimal operation is ensured through output control, making the system both effective and economical. ETO2 offers the possibility of snow melting - the green way.

- Electronic on/off control of up to 11kW
- Two-zone control, individually controlled
- Economical control - minimized energy consumption
- Adjustable moisture sensitivity
- Display and selector knob for easy programming
- Control of hydronic or electric ice and snow melting systems
- Several language options

We cannot change the weather - but we can control the consequences

The ETO2 controller has been developed for ice and snow melting on the ground and in gutters. Using readings from temperature and moisture sensors, the controller ensures economical control of power consumption while keeping outdoor areas and roofs free of ice and snow. The moisture sensor should be installed in the ground surface or placed in the gutter. As soon as moisture is detected in conjunction with low temperature, the ETO2 controller activates the snow-melting system.

Once the sensor has dried out, the thermostat immediately goes into afterrun and the system continues to provide heat for a set time.

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Type</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>32205</td>
<td>ETO2-4550</td>
<td>Thermostat incl. cover for wall surface mounting</td>
</tr>
<tr>
<td>32212</td>
<td>ETOG-55</td>
<td>Ground sensor for measuring temperature and moisture, 10m cable</td>
</tr>
<tr>
<td>32213</td>
<td>ETOG-56/ETOK-1</td>
<td>Ground sensor for embedding in outdoor surfaces, e.g. asphalt, 25m cable</td>
</tr>
<tr>
<td>32210</td>
<td>ETOR-55</td>
<td>Gutter sensor for measuring moisture, 10m cable</td>
</tr>
<tr>
<td>32214</td>
<td>ETF-744/99</td>
<td>Outdoor sensor for measuring temperature</td>
</tr>
<tr>
<td>32206</td>
<td>ETO2-BOX</td>
<td>UL mounting box for ETO2</td>
</tr>
</tbody>
</table>