

# All-in-one thermostat



## MTD3-1999-UA

- Sleek design
- Easy installation
- Energy-efficient
- ECO – directive ready
- Compliance with EN 50559

### MTD3 – the high-quality thermostat for Electric floor heating systems.

This high-quality thermostat is designed to have a minimum of impact on the environment and will at the same time provide long-lasting heating comfort.

It is the perfect choice for new installations and for replacement of outdated thermostats.

Electronic thermostat suitable for flush mounting in a standard wall socket.

With floor sensor. For optimal comfort avoiding cold tiles during spring and autumn, or as protection against damaging wooden floors.

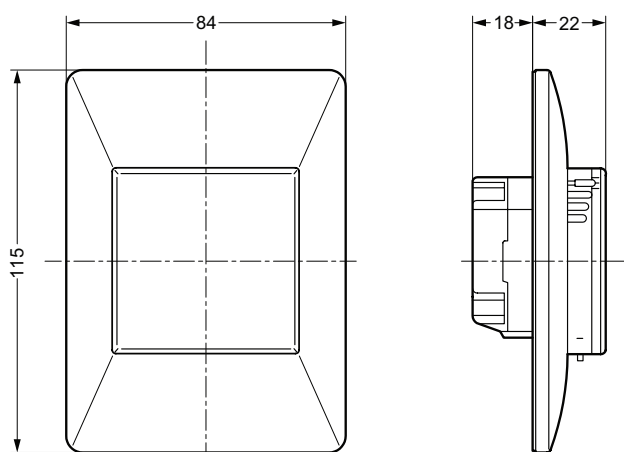
Built-in timer for automatic night setback and possibility to activate night setback or frost protection via external input.

### Product features:

MTD3 has a temperature setting range of 0-40°C, a night setback, frost protection and limit temperatures to ensure comfort and protect property from excessive temperatures.

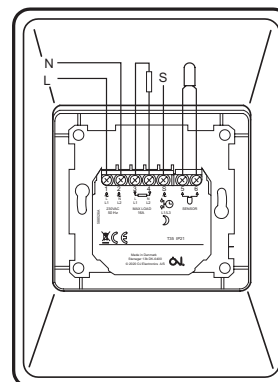
The thermostat comes with preset heating schedules suitable for most homes.

- Sleek design
- User friendly / intuitive menu
- Easy installation
- Energy-efficient
- Back-lit display
- Protective cover included
- Compliance with EN 50559 (hot spot protection)
- ECO directive ready
- Load up to 3,600W, 16A.
- Offset adjustment
- Floor sensor



Dimensioned drawing

BR1039A20a



BR1039A21a

### Thermostat control:

The MTD3 is an electronic thermostat with control of temperature by means of an NTC sensor. A symbol in the display indicates when heating is on.

### Temperature setback:

The thermostat has a built-in adjustable setback timer that can be activated.

### Temperature limitation:

MTD3 is supplied with an external floor sensor and a built-in room sensor.

The thermostat can be set for the following functions:

- Room temperature control
- Floor temperature control
- Room temperature control where the floor sensor is used as a limitation sensor. Maximum and minimum limitation temperatures can be set (e.g. max. 27°C for a wooden floor).

### Adjustment of the thermostat:

Temperature range +0/+40°C for easy setting of required temperature. The temperature range can be set with max. and min. temperatures.

### ECO Directive Ready:

The thermostat can by itself ensure that the installation fulfill the ECO Directive.

### TECHNICAL DATA

|                                |  |
|--------------------------------|--|
| Purpose of control             | Electrical underfloor heating  |
| Method of mounting             | Wall mounting in a socket or mounting box  |
| Supply voltage                 | 230 VAC +/-10% 50/60 Hz  |
| Max. pre-fuse                  | 16 A   |
| Built-in interrupter           | 2-pole, 16 A   |
| Enclosure rating               | P 21   |
| Wire size, terminals           | Current ≤ 13 A - 1.5 mm <sup>2</sup> , solid core wire<br>Current > 13 A to 16 A - 2.5 mm <sup>2</sup> , solid core wire |
| ELV limits realized            | SELV 24 VDC  |
| Output relay                   | Make contact - SPST - NO   |
| Output, load                   | Max. 16 A / 3600 W   |
| Max. Load/supply               | 3600 W at 240 Vac  |
| Control principle              | PWM/PI   |
| Standby consumption            | ≤0.75 W  |
| Backup time (timer)            | > 5 seconds  |
| Dimensions                     | H/115, W/84, D/40 mm<br>Build in depth <22mm<br>Weight ≤260 g  |
| Display                        | 21 x 21 mm segment display   |
| Control pollution degree       | 2  |
| Overvoltage category           | III  |
| Type of action                 | 1.B  |
| Software class                 | A  |
| Rated impulse voltage          | 4kV  |
| Ball pressure temperature (TB) | 125°C  |
| EU registered design           | DM/089 338   |
| Sensor type                    | 12KΩ NTC<br>Max cable length: 30 meters  |
| Sensor accuracy                | < ±2°C for +5°C - +30°C  |
| Temperature regulation         | < ±0.5°C for +5°C - +30°C  |