



# MTID

## Mechanical duct thermostat

*MTID is a series of high quality electro-mechanical thermostats for use in cooling, heating and ventilation systems.*

- ✓ Wide setpoint range
- ✓ Adjustable or fixed hysteresis
- ✓ 2-step design available
- ✓ Breaking capacity 15 A at 230 V AC
- ✓ Protection class IP65

### Function

The MTID electro-mechanical thermostats are constructed for duct mounting. The capillary tube is a liquid-filled copper bulb with a 200 mm protection spring area and a mounting bracket. The micro-switch is capable of breaking up to 15 A at 230 V AC.

It comes in a 1-step or 2-step model.

### Features

#### Hysteresis

1-step models are available featuring either fixed or adjustable hysteresis.

2-step models have fixed hysteresis.

#### Step differential

In the 2-step thermostats, the step differential can be adjusted 2...5 K.

#### Setpoint adjustment

The thermostat is available with a setpoint adjustment knob on the outside or under the cover.

Technical data

|                     |  |
|---------------------|--|
| Sensor element      | Liquid-filled copper bulb with 200 mm protection spring and mounting bracket |
| Contacts            | Dust-tight microswitches with SPDT contacts (heat/cool)                      |
| Switch capacity     | 15 (8) A, 24...250 V AC  |
| Ambient temperature | -35...+65°C  |
| Ambient humidity    | 10...90 % RH (non-condensing)  |
| Insertion length    | 200 / Ø 21 mm  |
| Protection class    | IP65   |
| Isolation class     | 1  |
| Weight              | 690 g  |
| Storage temperature | -40...+70°C  |
| Storage humidity    | up to 95% RH   |

Material

|         |                           |
|---------|---------------------------|
| Housing | Bayblend® base, ABS cover |
|---------|---------------------------|

Models

| Article   | Temperature range | Steps | Hysteresis        | Step diff. max. | Max. bulb temp | Hidden setpoint |
|-----------|-------------------|-------|-------------------|-----------------|----------------|-----------------|
| MTID30H   | -30...+30°C       | 1     | 1 K               |                 | 60°C           | X               |
| MTID60S   | 0...60°C          | 1     | 2...20 K          |                 | 75°C           | -               |
| MTID60-2  | 0...60°C          | 2     | 1 K               | 2...5 K         | 75°C           | -               |
| MTID60    | 0...60°C          | 1     | 1 K               |                 | 75°C           | -               |
| MTID120HR | 50...120°C        | 1     | Manual max. reset |                 | 140°C          | X               |

CE

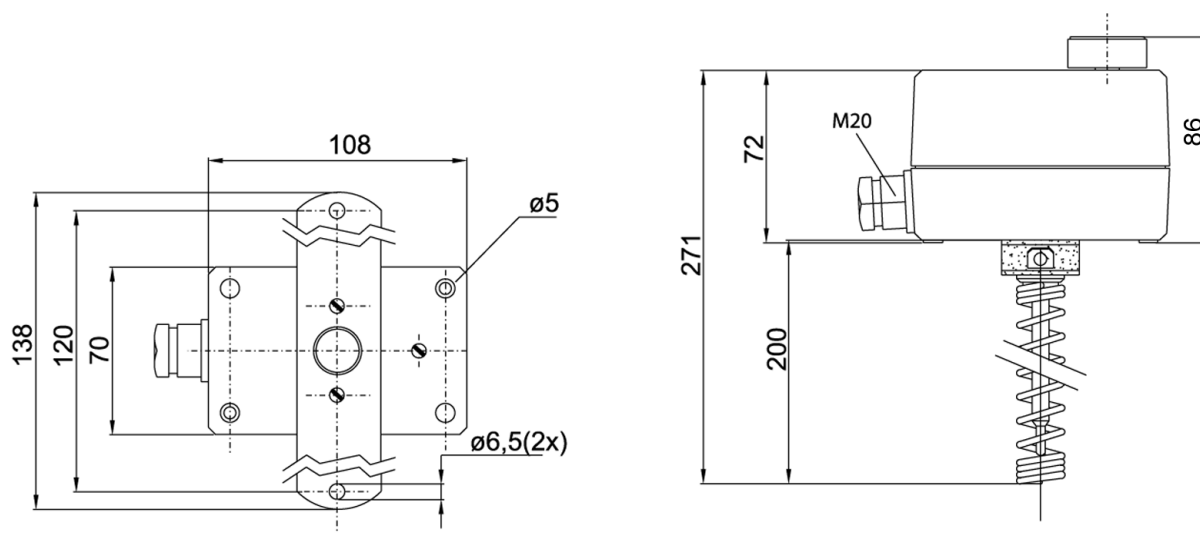
**Low Voltage Directive (LVD) standards:** This product conforms to the requirements of the European Low Voltage Directive (LVD) 2014/35/EU through product standard EN 60335-1.

**RoHS:** This product conforms to the Directive 2011/65/EU of the European Parliament and of the Council through standard EN 50581:2012.

Accessories

| Article | Description  |
|---------|--|
| DR-25   | Protection spring and mounting bracket (factory mounted, included upon delivery) |

## Dimensions



Measurements in mm.

## Wiring

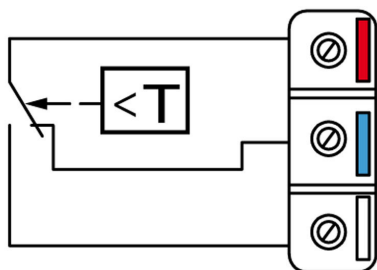
### 1-step models

#### Heating

Connect to the red and blue terminal. The contact will open when the temperature rises.

#### Cooling

Connect to the red and white terminal. The contact will open when the temperature drops.



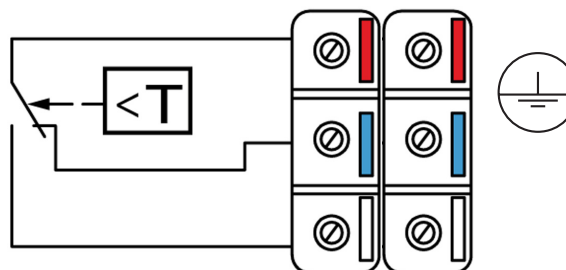
### 2-step models

#### Heating

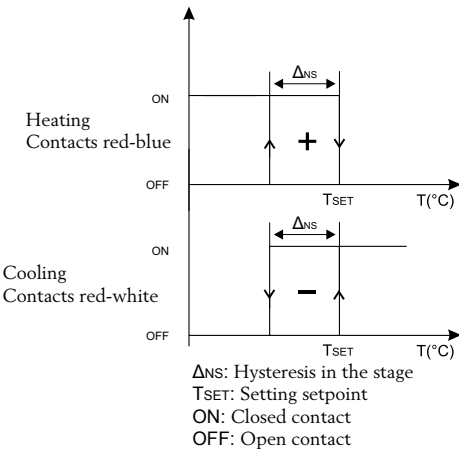
Connect to the red and blue terminal. The contact will open when the temperature rises. The step 2 contact will open first followed by the step 1 contact.

#### Cooling

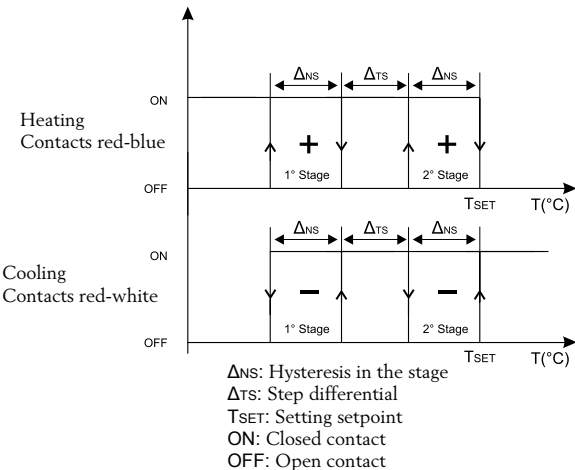
Connect to the red and white terminal. The contact will open when the temperature drops. The step 2 contact will open first when the temperature drops, followed by the step 1 contact.



Logic activation single-stage model



Logic activation two-stage model



Product documentation

| Document         | Description                          |
|------------------|--------------------------------------|
| MTID instruction | Instruction for installation of MTID |

The product documentation can be downloaded from [www.regincontrols.com](http://www.regincontrols.com)