The TC100 Series of fan coil thermostats are optimised for office building, hotel and residential applications. The TC100 Series can be used for two-pipe or four-pipe applications. Their simple design makes them suitable for any contemporary building. They are both easy to operate and install.

**Features**

- Set-point, fan speed and mode control
- Easy to install and maintain
- Green set-point marking indicates ideal range for energy efficiency

**Functions**

Set-point Adjustment - The set-point adjustment dial allows users to select a desired set-point for the space. The green set-point marking provides the user with the ideal range to optimise energy efficiency. The set-point range can also be limited by locking the set-point range.

Fan Speed - Users can select between High, Medium and Low fan speeds by adjusting the fan speed switch.

Mode Control - Users can switch modes from heating to cooling, or turn the thermostat off by adjusting the mode switch.

**Specifications**

- Sensing element: 10K NTC (3950)
- Accuracy: ±1.5°C at 20°C
- Set-point range: 5–30°C
- Operating temperature: 0–45°C
- Storage humidity: 5–90% RH
- Storage temperature: -10–60°C
- Power supply: 230VAC±10%, 50/60Hz
- Switch current rating: 2A resistive, 1A inductive
- Protection class: IP20
- Housing: Flame-retardant PC
- Dimensions: 86 x 86 x 27 mm (3.38” x 3.38” x 1.06”)
- Hole pitch: 60 mm (Standard)

**Part numbers**

<table>
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<tr>
<th>Part Number</th>
<th>Description</th>
<th>Application</th>
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<tbody>
<tr>
<td>TC103-3A2</td>
<td>FCU Thermostat for 2-position on/off actuator (2-wire)</td>
<td>2-pipe</td>
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<tr>
<td>TC103-3A2C</td>
<td>FCU Thermostat for 2-position on/off actuator w/fan stop (2-wire)</td>
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<tr>
<td>TC103-3B2</td>
<td>FCU Thermostat for 2-position on/off actuator (3-wire)*</td>
<td>2-pipe</td>
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<tr>
<td>TC103-3B2C</td>
<td>FCU Thermostat for 2-position on/off actuator w/fan stop (3-wire)*</td>
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<tr>
<td>TC103-3A4</td>
<td>FCU Thermostat for 2-position on/off actuator (2-wire)</td>
<td>4-pipe</td>
</tr>
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</table>

*Note: 3-wire actuator requires Form C /time-out functionality.
Installation guidelines

- Install the thermostat about 1.5 meter (59") above the floor.
- Make sure the device is powered off prior to installation/service.
- Do not install in locations that can be affected by radiant heat or in places with high levels of sunlight.
- Do not install thermostats behind doors or in corners.
- Protect from water/debris to avoid damaging the thermostat.

Operations

There is a temperature adjusting dial with graduation marks on the front panel, as well as a fan speed switch (HIGH-MED-LOW “ ”-“ ”-“ ”) and a mode control switch (HEAT-OFF-COOL “ ”-“ ”-“ ”). The operation steps are as follows:

- ON/OFF: Slide the switch “ ”-“ ”-“ ” to “ ” to turn on heating mode, or “ ” to select cooling mode. Slide the switch “ ”-“ ”-“ ” to “ ” to turn off the thermostat.
- Temperature Setting: Turn the dial and make the desired temperature set-point match up with the green arrow.
- Fan Speed Selection: Slide the fan speed switch “ ”-“ ”-“ ” to “ ” for high fan speed, to “ ” for medium fan speed and “ ” for low fan speed.
- Control Motorised Cooling/Heating Valve: during cooling or heating mode control, the motorised valve opens when the room temperature is higher/lower than the set-point. After the room temperature reaches the set-point, TC103-3A2/3B2 will close the valve with the fan still running, TC103-3A2C/3B2C will close the valve and switch off the fan.
- Control Motorised Cooling and Heating Valve (TC103-3A4): the cooling valve will be opened when the room temperature is higher than the set-point during cooling mode. The heating valve will be opened when the room temperature is lower than the set-point during heating mode. After the room temperature has reached the set-point, TC103-3A4 will close the valve with the fan still running.
- LED indicates operation status: GREEN shows the thermostat is in heating or cooling mode.
Wiring diagram

Mounting

1. Open thermostat
2. Install back base
3. Wire connection
4. Close front cover