



AX-DFCT-TH7281X



AX-DFCT-TH9520X

## Product Overview

The AX-DFCT-TH7281 Electronic thermostats are a range of wall mounted units for heating or cooling applications. These units can be either mains or battery operated. There is also a programmable version available.

## Features

- Low Profile Housing
- Mains and Battery Versions
- Programmable version available
- Switches loads upto 7A

AX-DFCT-TH7281X

## Product Specifications

|                                  |                  |                                      |
|----------------------------------|------------------|--------------------------------------|
| <b>Measurement Range:</b>        |                  | 0 deg to 45 deg C                    |
| <b>Setpoint Range:</b>           |                  | 5 deg to 35 deg C                    |
| <b>Operating Voltage:</b>        | AX-DFCT-THxxxx-H | 240Vac @ 50/60Hz                     |
|                                  | AX-DFCT-THxxxx-B | 2 x 1.5v AAA battery                 |
| <b>Switch Type:</b>              |                  | SPDT Volt Free Contacts              |
| <b>Switch Rating:</b>            |                  | 7A Resistive (3A Inductive) @240Vac  |
| <b>Temperature Differential:</b> |                  | 0.5 deg C (approx)                   |
| <b>Sensing Element:</b>          |                  | NTC thermistor                       |
| <b>Terminals Connections:</b>    |                  | Suitable for 2 mm <sup>2</sup> cable |
| <b>Time Constant:</b>            |                  | 3 minutes approx                     |
| <b>Dimensions:</b>               |                  | 73.4 x 73.4 x 30mm(max)              |
| <b>Weight:</b>                   | AX-DFCT-TH7281   | 100 gms                              |
|                                  | AX-DFCT-TH9520   | 110 gms                              |
| <b>Ambient Temperature:</b>      |                  | 0 deg to 50 deg C                    |
| <b>Operating Humidity:</b>       |                  | 5 to 90% non-condensing              |

## Order Codes

|                        |   |   |
|------------------------|---|---|
| <b>AX-DFCT-TH7281B</b> | - | Electronic Room Thermostat c/w batteries              |
| <b>AX-DFCT-TH7281H</b> | - | Electronic Room Thermostat mains powered              |
| <b>AX-DFCT-TH9520B</b> | - | Programmable Electronic Room Thermostat c/w batteries |
| <b>AX-DFCT-TH9520H</b> | - | Programmable Electronic Room Thermostat mains powered |

### Installation

The AX-DFCT-THxxxxH space thermostats should be installed by a suitably qualified technician only. The unit operates at mains voltage and should be installed in accordance with all prevailing regulations.

PLEASE NOTE: The AX-FCT-THxxxxH is for use with 220/240Vac mains voltage only and the neutral terminal must be connected for correct operation.

### Mounting

1/ The Thermostat should be installed on the inside wall of a room that is often used, approximately 1.5m above the floor in an area of good air circulation .

2/Avoid areas that exhibit unusual conditions such as in direct sunlight or near a door , window, fireplace, or stairwell. Also hot water pipes and appliances on the opposite side of the wall may affect accuracy .

3/Remove the front cover, using a screwdriver to depress the hook on the top of the front cover

4/ Mount the base with the wire through the holes at the base of the unit , fix the backbox through the holes in the base.

5/ Connect up the thermostat as below

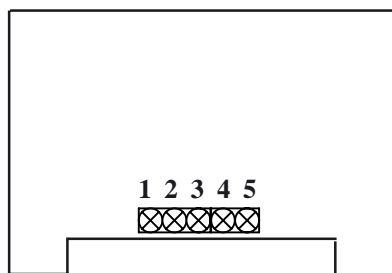
6/ If Battery operated insert the batteries as indicated on the unit .

7/Replace the front cover

8/If mains operated replace fuse on main circuit breaker.

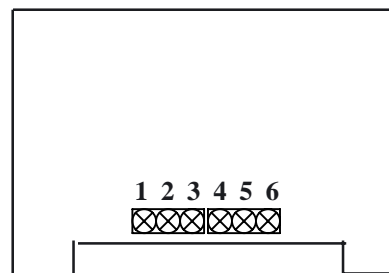
### Connections

#### -B Battery Version



- 1 N.O. Cooling
- 2
- 3 N.C Heating
- 4
- 5 Relay Common

#### -H Mains Version



- 1 N.O. Cooling
- 2 N.C Heating
- 3 Relay Common
- 4 Live 240Vac
- 5 Neutral
- 6 Earth

### Programmable Parameters (9520 versions only)

1/ Operation Mode setting either 5+ 2 days or 5+1+1 days or 5+ 2 days. ( with 6 on/off time settings per day )

2/Clock Setting

3/Program Setting

4/Vacation Mode.

5/Temporary Override

6/ Comfort override

7/ Temperature calibration

8/ Reset Mode