

TOUCH DIGITAL AC TEMPERATURE CONTROLLER

TH13 501

Technical Manual



DESCRIPTION:

Toyama AC CONTROLLER is an intelligent touch panel that provides convenience and comfort to the user. The current touch technology which is in use in all the hi-tech gadgets is adopted in these devices. Very attractive back lit seven segment graphic display is very pleasing to the eye. Extensive usage of SMD components not only ensures reliability but also makes the product highly compact for its functionality and features. The use of SMPS (Switch Mode Power supply) makes the Touch panel operational across countries from North America having 127V supply to Asian countries with 230V supply without any field setting. It controls the speed of blower in FCU or AHU of the central air-condition and maintains the set room temperature to the comfort of guests.

APPLICATION:

- Hotels/Motels
- Service Apartments
- Office buildings

SPECIFICATIONS:

- Power voltage : 90-270V/AC
- Power frequency : 50-60 Hz
- Temperature range : 16 °C ~ 32 ° C
- Temperature control precision : +/- 1 °C
- Operating Temperature : 0°C~50°C
- Dissipation power : <2W
- Dimension : W86mmXH86mmXD46mm

- Timer : Optional

PLEASE READ THE INSTRUCTIONS BEFORE INSTALLING:

- AC Controller should preferably be installed by a Toyama trained installer (electrician)
- Installation procedure should strictly be as per the installation chart.
- Before installing AC Controller, check all the wiring for open/short circuits or any leakage.
- Ensure wires are properly connected between AC Controller to the Blower and the chiller valve.

INSTALLATION OF AC CONTROLLER PANEL SYSTEMS – STEPS:

- Turn off power through the MCB.
- Connect the AC Controller L (phase) & N (neutral) wires to Main phase & neutral.
- Connect the Blower motor wires of “Low”, Medium and High to AC Controller Low, Medium and High terminals.
- Connect chiller valve open and close terminals to AC controller O and C
- Carefully screw the unit on to the metal box and click the front plate.
- Turn on the MCB.

OPERATION:

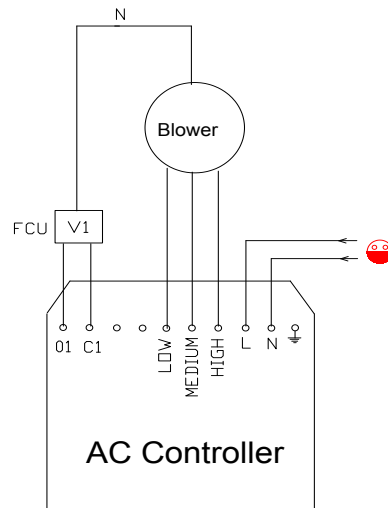
- Touch on/off button on the panel to turn on or turn off the controller.
- Touch wind speed button to change the wind speed of blower.
- Touch/tap increase/decrease temperature button to set the temperature.
- Hold touch panel set up key for 5 seconds, then to touch increase temperature button and decrease temperature button to shift the mode.
- Hold touch panel wind speed key for 5 seconds into setting timing on/off interface. Touch increase temperature button and decrease temperature button to set timing for device on/off. The longest time is 30 minutes. Tough wind speed key to complete the setting. It is in timing to turn on device under off status. It is in timing to turn off the device under on status.

FEATURES:

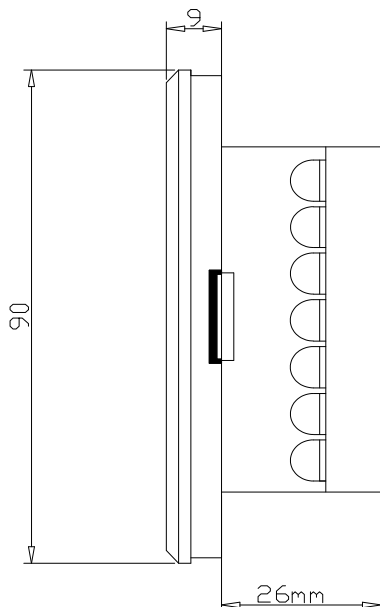
- Luminescent LCD screen indicate indoor temperature, present temperature, wind speed and time.
- Can be controlled via IR remote.
- Its intelligent circuit controls three steps of wind speed, cooling mode, heating mode and auto mode.

- LED touch-types button with backlight comply with trend and it is convenient to clearly operate even in the dark.
- Effectively save more than 30% energy.
- Super-luxuriously designed and made so ABS fire resistant, insulating metal materials.

WIRING DIAGRAM:



MECHANICAL DIMENSIONS:



Note: Suitable For:

- Mounting metal box for the device - 2 Module (75mmX75mmX50mm)
- Use 1.5 Sq.mm flexible wires for Phase, Neutral & Load connections.