

EC-300

230VAC, Energy Controller for energy saving in offices or hotel rooms. Turns off/on HVAC + lighting systems per presence in a room via an Occupancy Sensor and optional Contact Inputs

The EC-300 is a smart Energy Controller, which offers substantial energy saving of Air Conditioning & Lighting operation in hotel bedrooms, offices or conference rooms.

Since hotel bedrooms have different needs from offices regarding occupancy changes, the EC-300 allows different configurations for them. In both applications, presence detection is achieved via an Infra Red Occupancy sensor; if the IR sensor detects no presence within a certain, configurable time, the EC will cut off electricity to HVAC &

Lighting systems. Upon detection, EC will automatically re-operate the systems. Further energy saving is achieved by cutting off electricity to HVAC system if someone opens the window, or if set temperature exceeds the Limit Cool or Limit Heat. For Hotels, additional Contact Input, a door switch, or other Normally Closed input is employed to stop HVAC, Lighting or both.

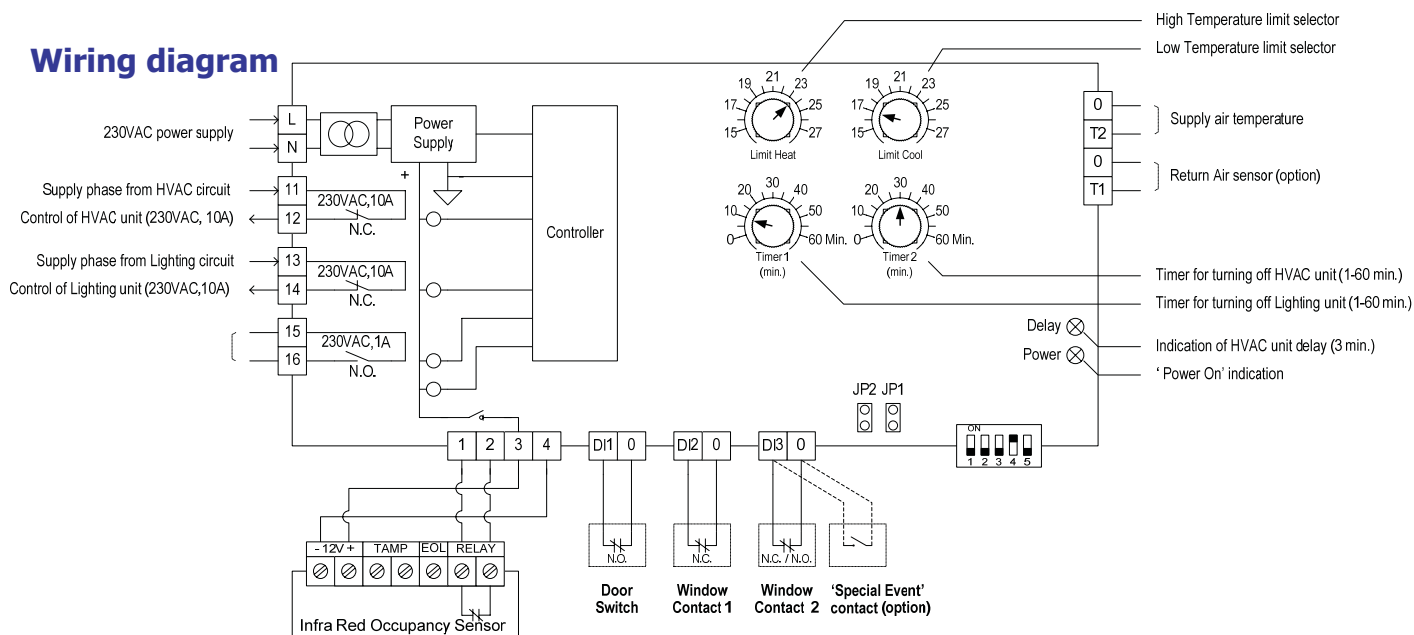


Available also in 24VAC version

Features

- Power supply - 230VAC, 10A for HVAC operation
- Detects presence based on an IR Occupancy sensor + Contact Inputs on door entry or window
- Easy, quick installation at voltage line, between an existing HVAC & lighting system and Power Supply
- Inputs:
 - IR Occupancy sensor – turns off HVAC and lights after adjustable time, separate for HVAC and lights
 - Window contact (X2) – N.O. or N.C. selectable
 - Door switch – enables special logic for hotel rooms
 - Temperature sensors – enable Temperature Limits, Cool & Heat set limits are adjustable
- EC installation requires no modification in the existing room devices
- No decline in convenience to user
- Controller supplies 12VDC voltage to IR sensor
- EC set contains Controller + IR sensor
- DIP switch selectable options:
 - Hotel or Office configuration (Door switch active or not for logic)
 - With or without compressor delay
 - Window contact configuration (N/O or N/C)
- Maximum energy saving

Wiring diagram



TLC

230VAC, Temperature Limit Controller for energy saving. Turns off/on compressor as per adjustable temperature limits.

The TLC is a simple, yet efficient Temperature Limit Controller which offers substantial energy saving of Air Conditioning by limiting 'Set Temperature'.

The TLC is compact and easy to install at any existing AC system by connecting the compressor relay line to the TLC, the TLC overrides the AC control system and therefore can limit the Cool/Heat set points.

Limit Cool & Limit Heat values are configurable. If ambient temperature from the return air sensor exceeds the predefined limits, the compressor will stop working. The TLC will automatically re-operate the compressor according to these values.

The TLC allows significant energy saving in both commercial or residential applications while investment is minimal and installation is quick and simple.

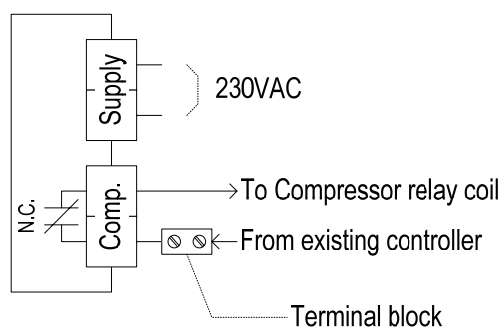


Available also in 24VAC version

Features

- Energy Saving, cost effective Controller
- Adjustable temperature limits for Cool / Heat using 2 manual knobs
- Power supply - 230VAC for HVAC operation
- Easy, quick installation for any existing AC
- 1A, 230Vac dry contact for compressor relay
- With or without compressor delay (to protect compressor) – jumper selectable
- TLC installation requires no modification in the existing room devices
- No decline in convenience to user
- Return On Investment (ROI) is fast

Wiring diagram



Lead-Lag Controller

Lead-Lag Controller for 2 complete units, with On/Off cycling every 24 hrs.

The Lead-Lag controller is the most efficient way of controlling temperature in a remote location where both a primary cooling unit and a back-up cooling unit are used.

The Lead-Lag controller controls 2 different units, treating them as 2 different stages, and allows them to cycle On and Off every 24hrs. This ensures that the desired room temperature is always maintained and also prevents wear of the units.

With a 4°C differential kept always between room temperature and set temperature, the Lead-Lag controller is ideal for environments, such as computer rooms and other rarely visited rooms.



AC

COOL

ALARM

EXT. SENSOR OPTION

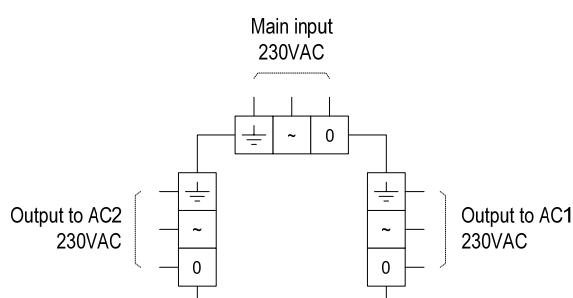
TIMER

COMPRESSOR DELAY

Features

- Main Supply - 230VAC
- Auto switch-over from one unit to the other every 24 hrs.
- In Auto mode, the 2 units (on-duty and off-duty) are treated like 2 stages
- On-duty unit compressor cycles between "On" and "Off" depending on room temp. and set temp.
- Time delay for compressor protection
- 4°C always maintained between room temp and set temp- off-duty unit will start operating, if necessary.
- Manual switch-over (3 positions) between "Auto", "Off" and "Manual"
- Display of ambient temperature on a wall-mount room thermostat (ETN).
- Fault indication when ambient temperature rises above 28°C.
- External sensor for ambient room temperature.

Wiring diagram



M6000-T1-T2-AN

230VAC, Multi Stage Controller, with 6 programmed outputs + analog inputs, for large applications

The M6000-T1-T2-AN controller is the best multi-stage display controller on the market today. As opposed to many complicated units, the M6000-T1-T2-AN makes it incredibly easy to pre-set stages and all other parameters. This, plus the 6 individually programmed outputs, gives users a unique ability to "custom-build" their entire HVAC control system.

The M6000-T1-T2-AN offers the following:

- * 6 outputs- fully programmable
- * 2 outputs for On Indication (may activate fan)
- * Input for 2 temperature sensors to be used separately for each output (Meitav-tec's sensors)
- * Analog Inputs (0-10VDC) to be used separately for each output (humidity, pressure, water flow, etc)

The M6000-T1-T2-AN is suitable for even the largest of applications, such as chillers and big air-handling units.

Features

Main Supply - 230VAC with power supply

Range temperature from 0°C-65°C

Range set point for each output 0°C-60°C

- 6 programmable outputs, each output corresponds to a stage. Parameters that can be set are:
 - * Set point
 - * Input to operate by: Analog, T1 or T2 (2 different temperature sensors) – inputs may be combined
 - * Differential (ΔT between stages)

- * Logic for output- Cool or Heat
Ex: Humidifier- If Heat is selected, output will be activated only if set point is Higher than actual humidity
- * Compressor delay – Yes or No

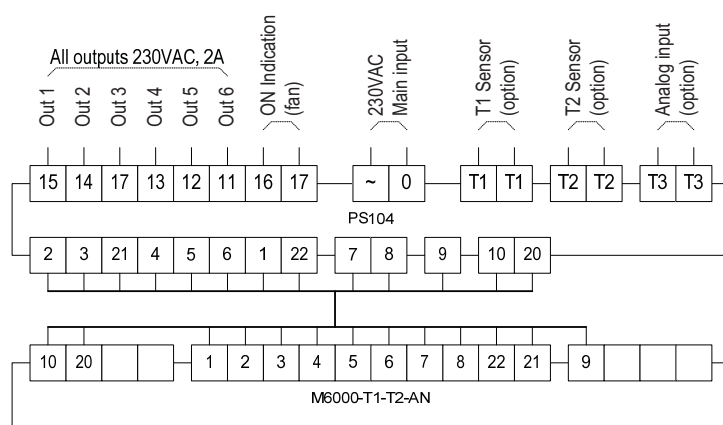
- Analog input can be set for different scales (0 to 100 as % or 0 to adjustable)
 - Fault input – Normally Open (all unit OFF)
- Energy saving – cost efficient, environmental friendly controller
- All outputs have Random start



M6000 (12V) + PS104



Wiring diagram



FCC_01 - Free Cooling Controller

Wall mount, 230VAC controller, for Cooling with outside fresh air – saves energy and refreshes room air.

Meitav-tec's 'Free Cooling' controller offers a simple, energy saving solution to control room temperature. 'Free Cooling' is virtually a Cool Only thermostat, which serves as a complementary to an existing HVAC control system. The thermostat is designed to take advantage of natural resources to cool room temperature; if outside temperature is cooler than ambient then the Free Cooling thermostat sends a signal to open a window or a damper to let fresh, cool air come in, and cool the room.



AC

FC


COOL


DAMPER
CONTROL

EXT.
SENSOR
OPTION

Features

- Wall mount – 230VAC thermostat
- Open / Auto / Close switch (for damper, fan or window)
- External / Internal room sensor – jumper selectable
- Outside temperature sensor input
- Can work as a "stand-alone" or next to another HVAC system
- Difference between ambient and room temperature, to open the window, is jumper configured (Default is 1°C)
- Energy saving controller
- Aesthetic shaped controller

Wiring diagram

