



Description

Thermostat with backlite display for various HVAC applications

with BACNET and MODBUS interface to B.M.S./Smart-Home.






Stylish designed with user friendly LCD display and silicon rubber buttons interface universal room Thermostat,

6 D/O, 2 A/O and 2 U/I., 24VAC (available also as line voltage model with Flush mount plastic housing) for both fan coil and air condition control, suited for commercial and residential applications

Up to: 2 cooling stages, 4 heating stages, 3 fan speeds or VFS

Optional configuration

Humidity 	Occupancy sensor 	Programmable 
<ul style="list-style-type: none"> ▪ Built in Humidity sensor (option) ▪ Humidity set-point controls ▪ Humidifier/de-humidifier outputs ▪ Cool + re-Heat de-humidification option 	<ul style="list-style-type: none"> ▪ Built-in OCC PIR sensor ▪ Integration with Energy Saving algorithms and door switch/key input ▪ 5 m. / 15 ft. detection 	<ul style="list-style-type: none"> ▪ Daily/Weekly programs: <ul style="list-style-type: none"> 1 for all, 5-1-1, 5-2 or 7 days ▪ 2 or 4 Daily events ▪ Program type: "EU" - Start time and Stop time or "US" - Start time, set-point, mode and speed.

ALTC Thermostat Series | General Datasheet

Features & Benefits

- Clear icons on LCD for all the operation functions
- Simple and easy functional pressed silicon rubber buttons
- Easy configuration with DIP Switches and technician settings procedure
- Full access to all the thermostat parameters from the technician settings menu
- Temperature readings from the thermostat or from an External sensor
- I/O list:
 - 6 D/O - Maximum 3A each, 5A total
 - 2 A/O - 0-10V
 - 2 U/I - D/I or 0-10V input
 - 2 X RS485 terminals (A/B)
- Backlit display with adjustable dimming time
- Optional External Temperature sensor
- Optional Buttons Lock
- °F/°C scale
- Ambient Temperature display & reading offset
- Occupancy sensor input – for energy saving
- Economy Mode
- Filter clean/replace alert with adjustable time
- Freeze Protection – adjustable temperatures
- Auto Fan (fan on demand)
- Compressor protection delay timer
- H/P and H/C heating configurations

Comparison Table

Models	Humidity sensor	PIR (Occupancy sensor)	Programmable	Available in line voltage
ALTC24/SUPER				√
ALTC24/SUPER/PROG			√	√
ALTC24/SUPER/HU	√			√
ALTC24/SUPER/PROG/HU	√		√	√
ALTC24/SUPER/HU/PIR	√	√		√
ALTC24/SUPER/PROG/HU/PIR	√	√	√	√

*Note: Not all options available in all models

All ALTC Models communicate with BACnet & MODBUS interface. Selection between protocols done by DIP Switches settings in the thermostat

All ALTC models control Heat/Cool, A/C, Rooftops, PTACs systems and Fan Coils 2-pipe or 4-pipe systems with On/Off and Proportional valves and offer 3 speeds or VFS fan control.

All models are available without Communication interface to B.M.S./B.A.S./Smart-Homes

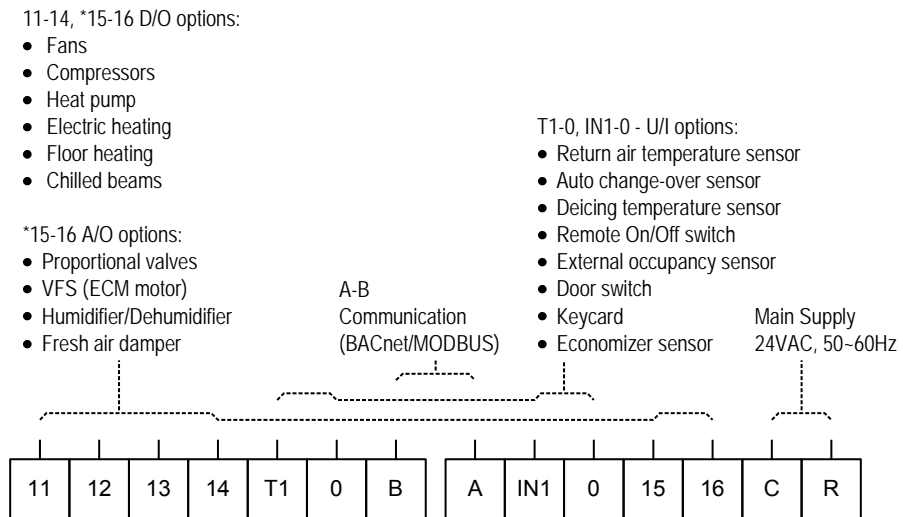
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Naming conventions

24VAC	/24 after the P/N indicates that the thermostat is a 24VAC operated model. No /24 indication means line voltage thermostat with flush mount design.
Programmable	/PROG after the P/N includes Real time clock and Weekly-Program (Scheduling).
Humidity	/HU after the P/N Includes built in Humidity sensor .
PIR (Occupancy sensor):	/PIR after the P/N includes built-in PIR Occupancy sensor.

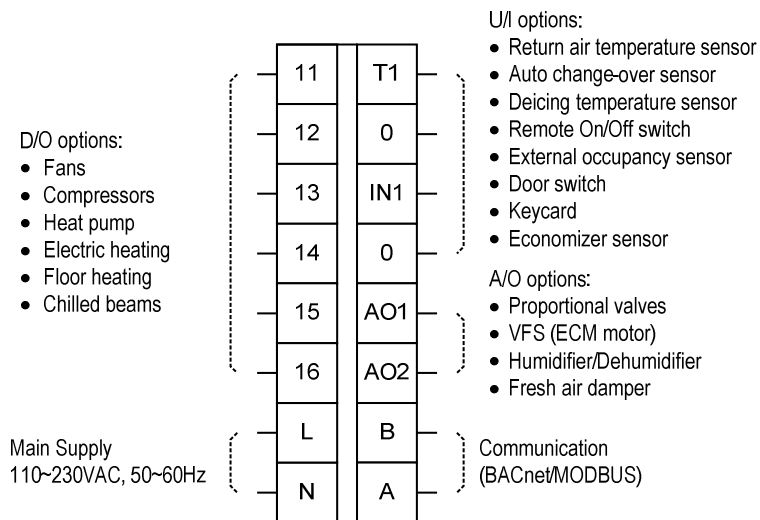
Wiring diagrams

ALTC24 24VAC



*Outputs 15 and 16 can be used as D/O or A/O outputs – jumper selectable

ALTC 110~230VAC (Line voltage)

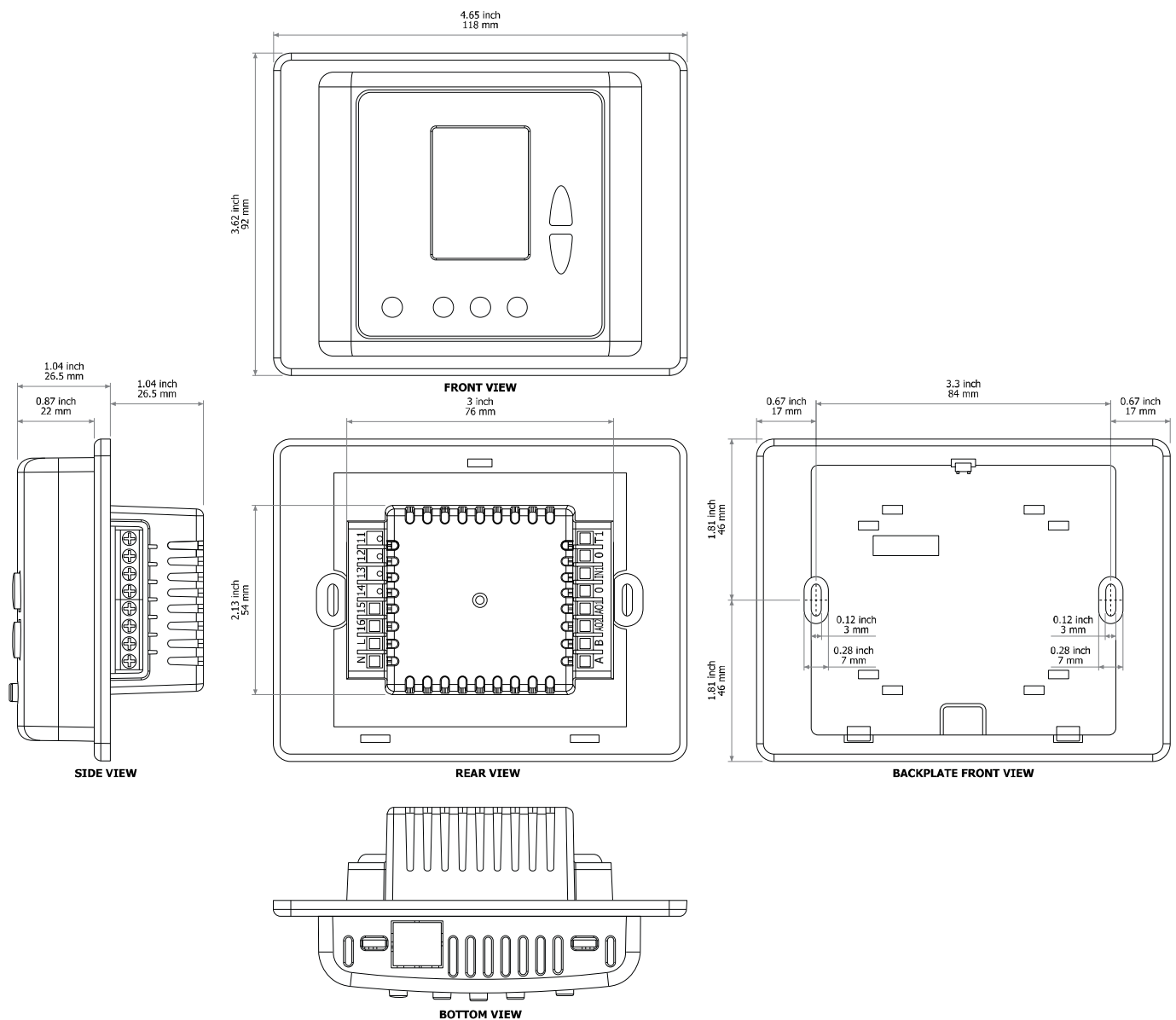


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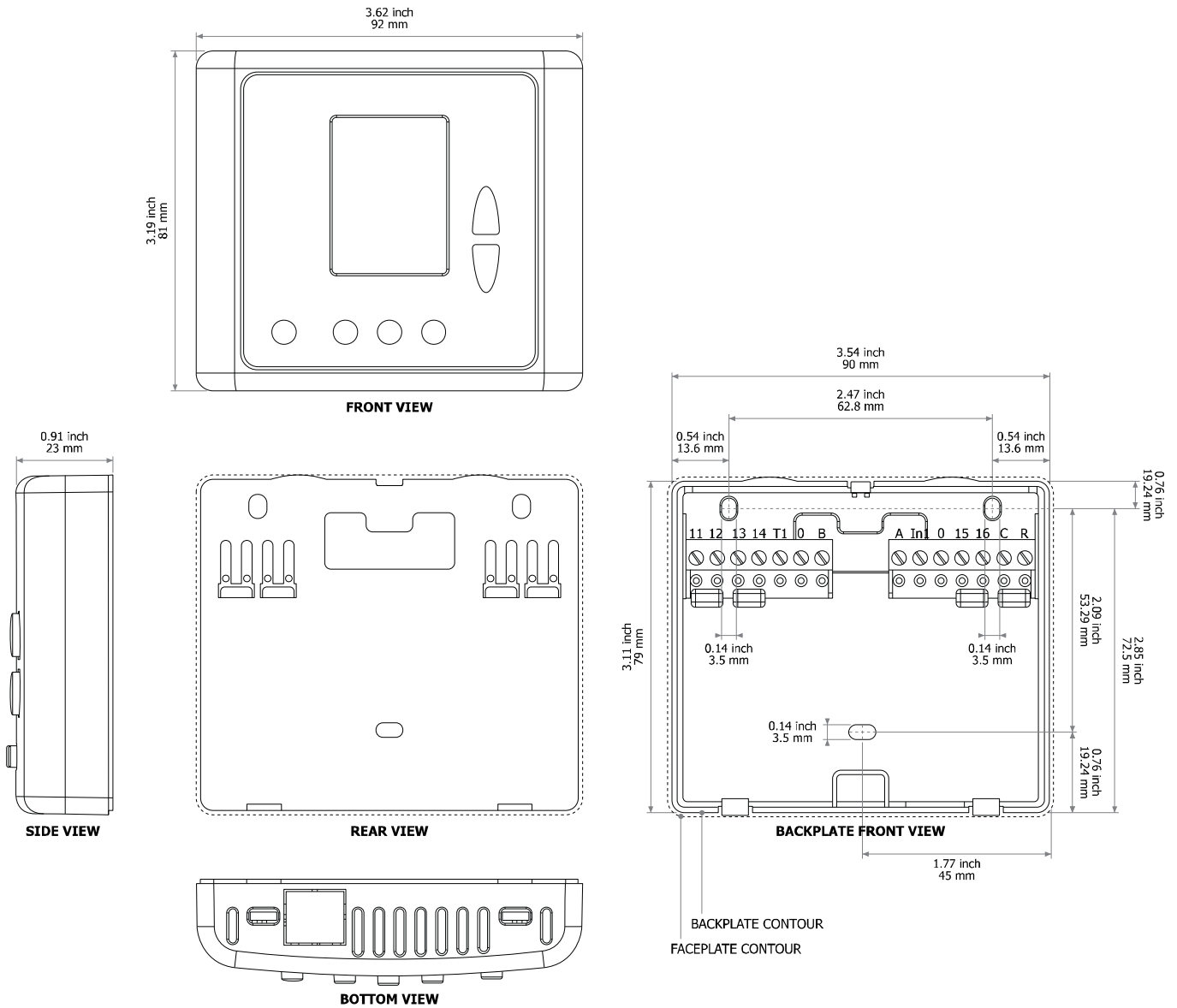
Technical specifications

- | | | | |
|------------------------------|-------------------------|------------------------|--------------------|
| ▪ Operating voltage | 110-230VAC or 24VAC | ▪ Plastic type | PC/ABS |
| ▪ Temperature readings scale | 5°C÷35°C/41°F÷95°F | ▪ Flammability | UL94V-0 |
| ▪ Temperature sensor type | NTC 50K@25°C/77°F | ▪ PIR occupancy sensor | H90°/V20°, 5m/16ft |
| ▪ Operating temperature | 0°C÷50°C / 32°F÷122°F | ▪ Humidity sensor | 5-95%RH |
| ▪ Storage temperature | -10°C÷60°C / 14°F÷140°F | | |
| ▪ Storage/operating humidity | 80%RH | | |

Dimensions ALTC, 110~230VAC (Line voltage)



Dimensions ALT24/ALTC24, 24VAC



The performance specifications are nominal and conform to acceptable industry standards. For applications at conditions beyond these specifications, consult the local Meitav-tec office or representative. Meitav-tec shall not be liable for damages resulting from misapplication or misuse of its products.

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