



Description

Thermostat with backlite display for various HVAC applications

with BACNET and MODBUS interface,

6 D/O, 2 A/O and 2 U/I

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 in line voltage model with Flush mount wiring connection) 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 - Daily/Weekly Programs, 5-1-1 or 7 days (optional)





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
- 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)

ALTC Thermostat Series | General Datasheet

- 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

Optional configuration

Humidity 	Occupancy sensor 
<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

Comparison Table				
Models	Humidity	PIR	5-1-1/7 Day Programming Mode	Available in line voltage
ALTC/SUPER				√
ALTC/SUPER/PROG			√	√
ALTC/SUPER/HU	√			√
ALTC/SUPER/PROG/HU	√		√	√
ALTC/SUPER/HU/PIR	√	√		√
ALTC/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 and offer 3 speeds and VRF fan control.

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

ALTC Thermostat Series | General Datasheet

Optional configurations:

24: /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

PROG: /PROG after the P/N includes Weekly-Program (Scheduling) and RTC in the thermostat

Humidity: /HU after the P/N Includes Humidity sensor (example: ALTC/W/HU - Horizontal, 220V, White w/Humidity sensor)

PIR: /PIR after the P/N includes built-in PIR Occupancy sensor in the thermostat

Wiring diagrams

24VAC

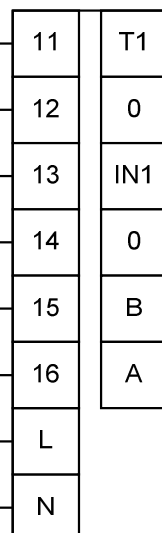
11-14, *15-16 D/O options:

- Fans
- Compressors
- Heat pump
- Electric heating
- Floor heating
- Chilled beams

*15-16 A/O options:

- Proportional valves
- VFS (ECM motor)
- Humidifier/Dehumidifier
- Fresh air damper

Main Supply
ALT24/ALTC24 Series:
24VAC, 50~60Hz



U/I options:

- Return air temperature sensor
- Auto change-over sensor
- Deicing temperature sensor
- Remote On/Off switch
- External occupancy sensor
- Door switch
- Keycard
- Economizer sensor

***Communication
(BACnet/MODBUS)

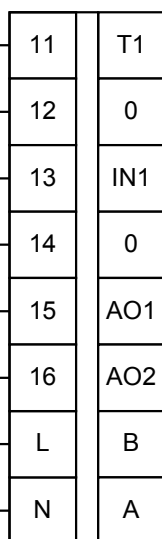
*Outputs 15 and 16 can be used as D/O or A/O outputs – jumper selectable

110~230VAC

D/O options:

- Fans
- Compressors
- Heat pump
- Electric heating
- Floor heating
- Chilled beams

Main Supply
ALT/ALTC Series:
110~230VAC, 50~60Hz



U/I options:

- Return air temperature sensor
- Auto change-over sensor
- Deicing temperature sensor
- Remote On/Off switch
- External occupancy sensor
- Door switch
- Keycard
- Economizer sensor

A/O options:

- Proportional valves
- VFS (ECM motor)
- Humidifier/Dehumidifier
- Fresh air damper

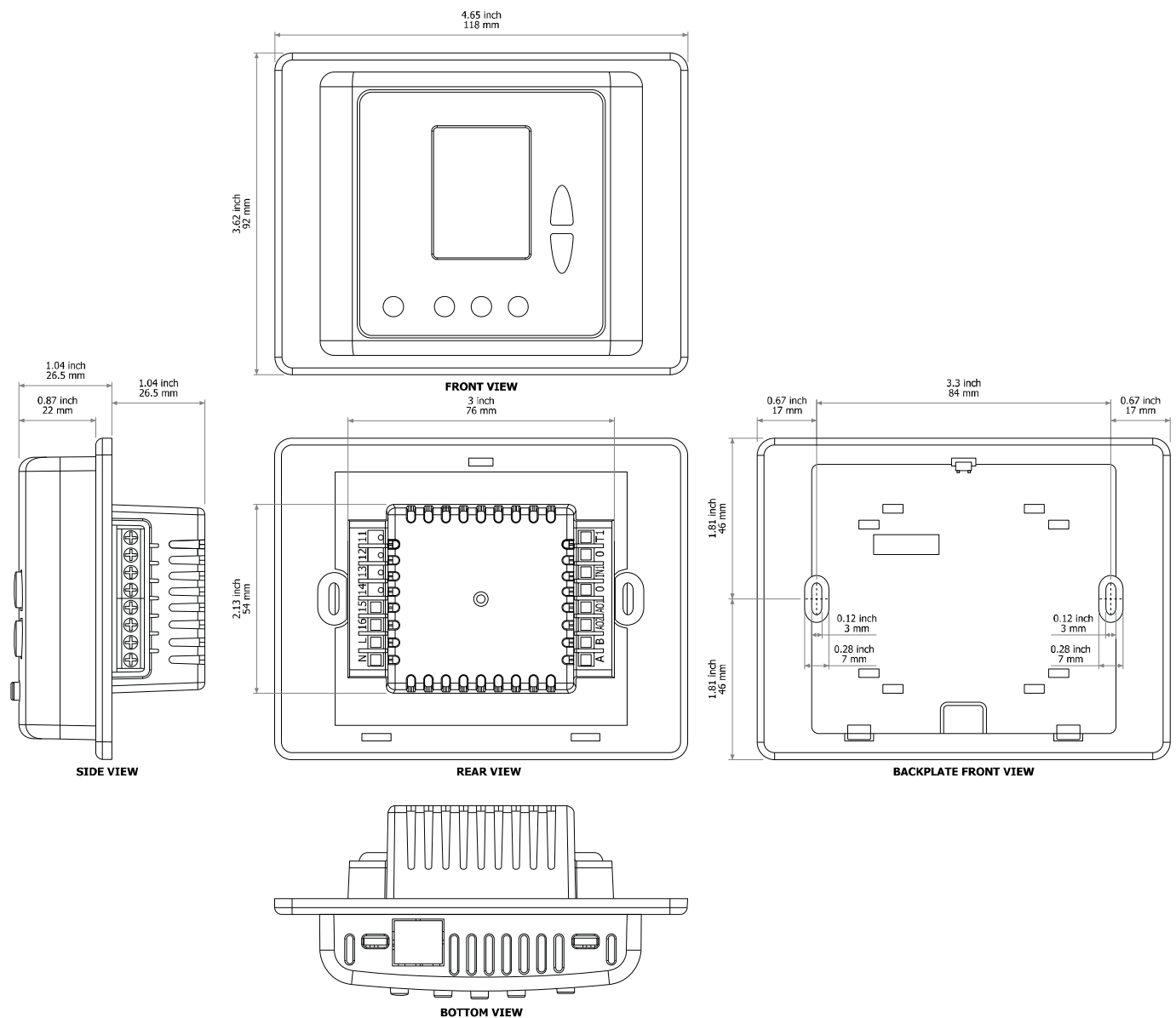
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ALTC Thermostat Series | General Datasheet

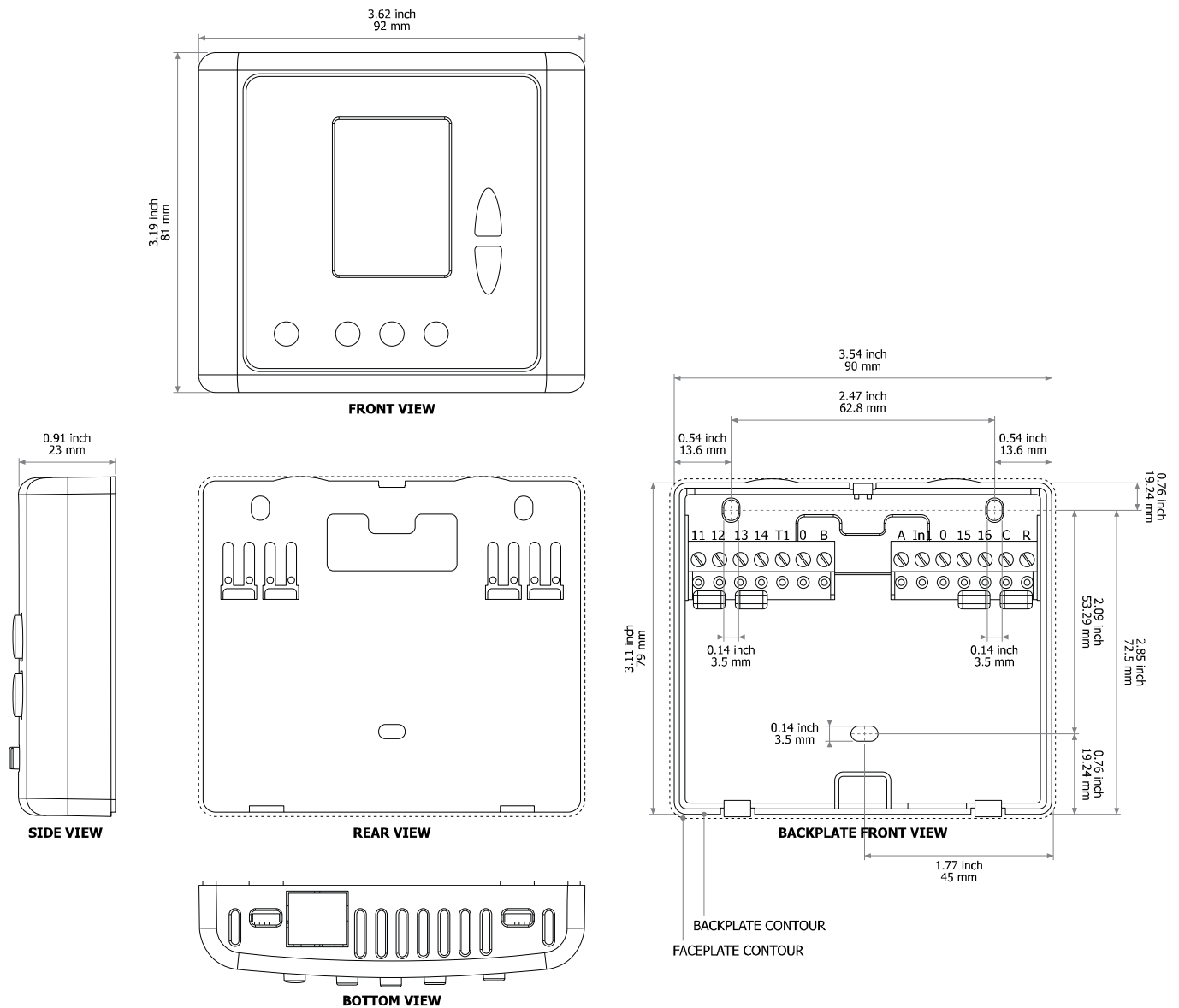
Technical specifications

Operating voltage	110-230VAC or 24VAC	Plastic type	PC/ABS
Temp. readings scale	10°C÷30°C/50°F÷86°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 ALTC110/230



Dimensions ALTC24



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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