Touch Screen Thermostat

MTSC/SUPER, MTSC24/SUPER Series

MTS/SUPER, MTS24/SUPER Series

Owner's manual and technician settings
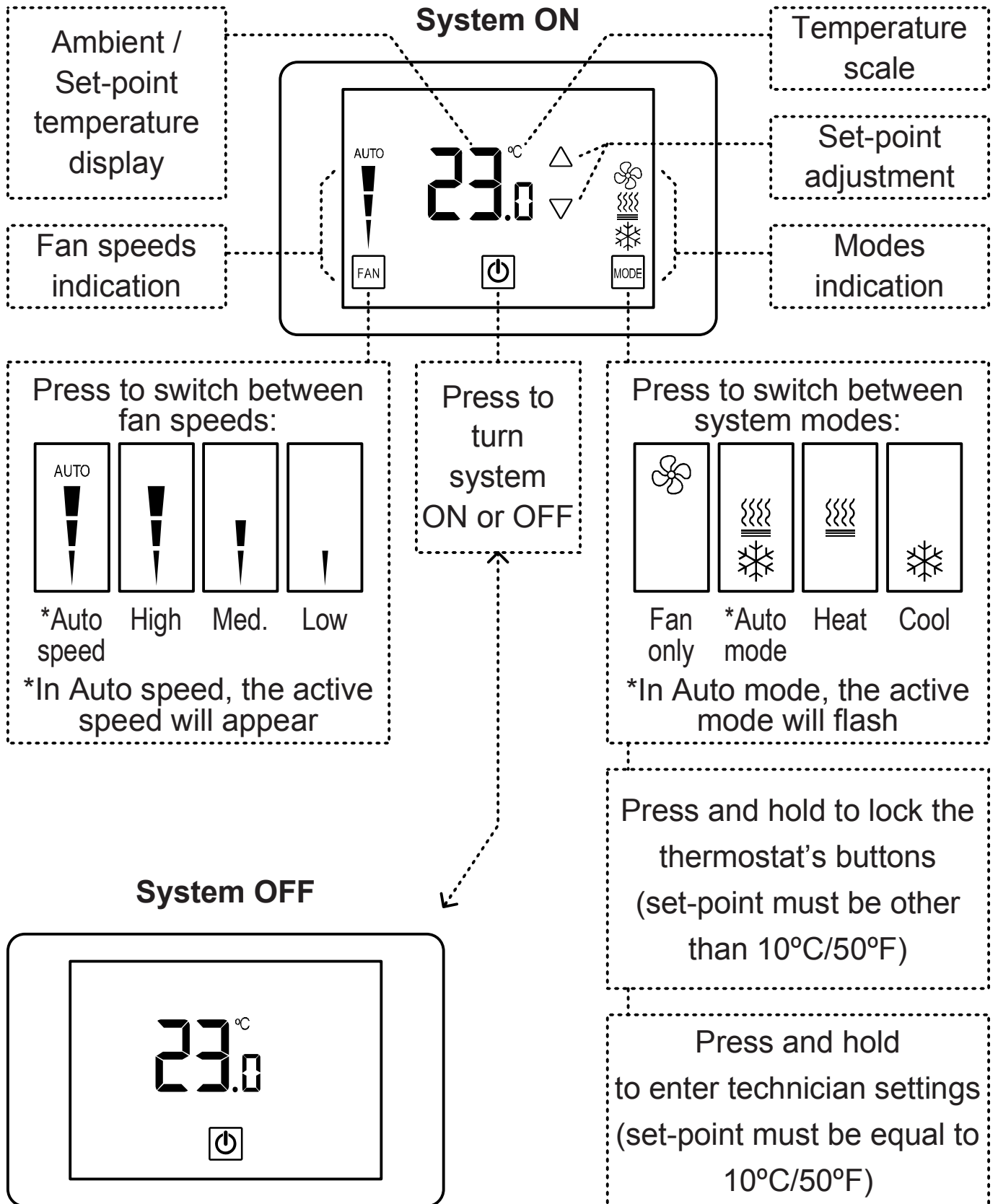
⑤ meitav-tec

Index

1. Owner's manual

1.1 Quick Guide

System ON

Ambient / Set-point temperature display

Temperature scale

Set-point adjustment

Fan speeds indication

Modes indication

AUTO **23.0** ℃

FAN   ⏻   MODE

Press to switch between fan speeds:

AUTO	High	Med.	Low

*Auto speed   High   Med.   Low

*In Auto speed, the active speed will appear

Press to turn system ON or OFF

Press to switch between system modes:

Fan only   *Auto mode   Heat   Cool

*In Auto mode, the active mode will flash

Press and hold to lock the thermostat's buttons (set-point must be other than 10ºC/50ºF)

Press and hold to enter technician settings (set-point must be equal to 10ºC/50ºF)

System OFF

23.0 ℃

⏻

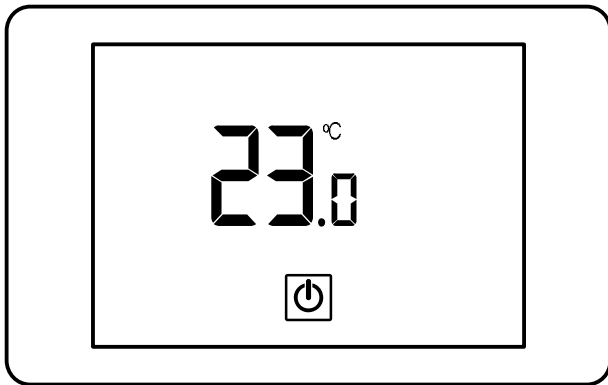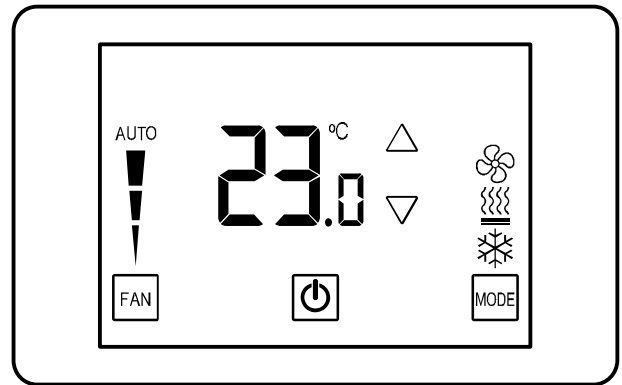## 1.2 Turning the unit ON or OFF

- Press the [⏻] button to turn the unit ON – system mode and fan speed symbols will appear on display.

- Press again to turn the unit OFF – the symbols will disappear.

Unit OFF   Unit ON

1.3 Adjusting the set-point temperature

- While the thermostat is ON, press the ▽ or △ buttons – the set-point temperature will flash.

- Press again to adjust the set point.

1.4 Switching between temperature scales

- Press and hold the [✿] button to switch between temperature scales.

Note: set-point must be other than 10ºC,11ºC/50ºF,51ºF

1.5 Switching between system modes

- Press the MODE button to switch between system modes:

| Cool | Heat | Auto mode | Fan only |
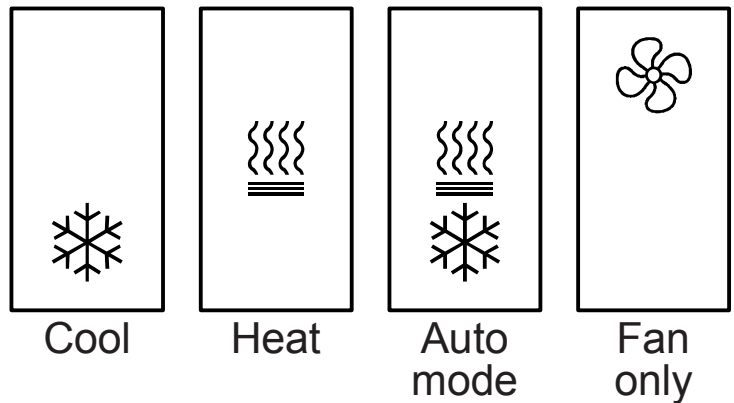
Notes:

- During demand for cooling (cooling active), the ❄ will flash.
- During demand for heating (heating active), the ⧙ will flash.

> The selection of system modes may be disabled depending on system configuration.

1.6 Switching between fan speeds

- Press the FAN button to switch between fan speeds:

  Note: When Auto speed Is selected, the word "AUTO" and the active fan speed will appear on display

| Low speed | Medium speed | High speed | Auto speed |
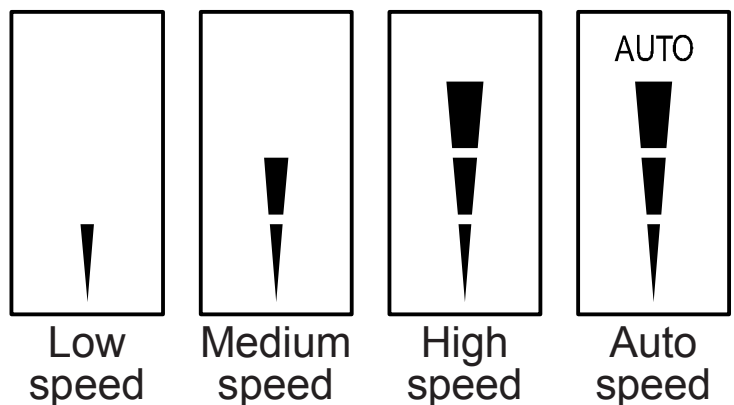
> The selection of fan speeds may be disabled depending on system configuration.

1.7 Fan on demand (Auto fan)

- Press and hold the [FAN] button to activate or deactivate fan on demand (Auto fan) function.

Notes:

- When activated, the fan will run with demand for cooling or heating.

- The fan on demand function cannot be activated with "Fan only" mode.

```
This option may be disabled, depending on system configuration.
```

AUTO FAN

AUTO FAN active

1.8 Lock the thermostat's buttons

- Press and hold the [MODE] button to lock or unlock the thermostat's buttons. When locked, the 🔒 icon will appear on display.

1.9 Timer for turning the thermostat off

- Press and hold the [⏻] button – the hours for the off-timer will appear on display. Adjust the timer using the ▽ and △ buttos.

  Range: 0...10 Hours

  Note: Set "0" to disable the timer.

1.10 Economy mode indications E1 – E6

- Economy mode can be activated by triggering a window contact, door switch, key-tag or PIR sensor.

- When Economy mode is active, the thermostat will either turn off or use special economy set points for cooling and heating set by technician.

  Please refer to parameters P25 and P26 in the technician setting section of this manual.

- The following indications will appear on display:

  - **E1** – Economy mode triggered by window contact

  - **E2** – Economy mode triggered by PIR (occupancy sensor)

  - **E4** – Economy mode triggered by door switch or key-tag

  - **E5** – OFF state triggered by door switch or key-tag

  - **E6** – Valves OFF and Fan low triggered by door switch or key-tag

1.11 Freeze protection

The Freeze protection feature will not allow the room temperature to drop below predefined cut-in temperature. Depending on which configuration the system is operating under (with or without Heat pump) this feature will force the system to operate in heat mode and activate the fan.

This feature will take effect when the thermostat is either ON or OFF. When the room temperature rises above the predefined cut-out temperature, the thermostat will return to its previous state.

When freeze protection is activated, the display alternates between "AL" and room temperature.

For selection of cut-in and cut-out temperatures, please refer to technician settings parameters P36 and P37.
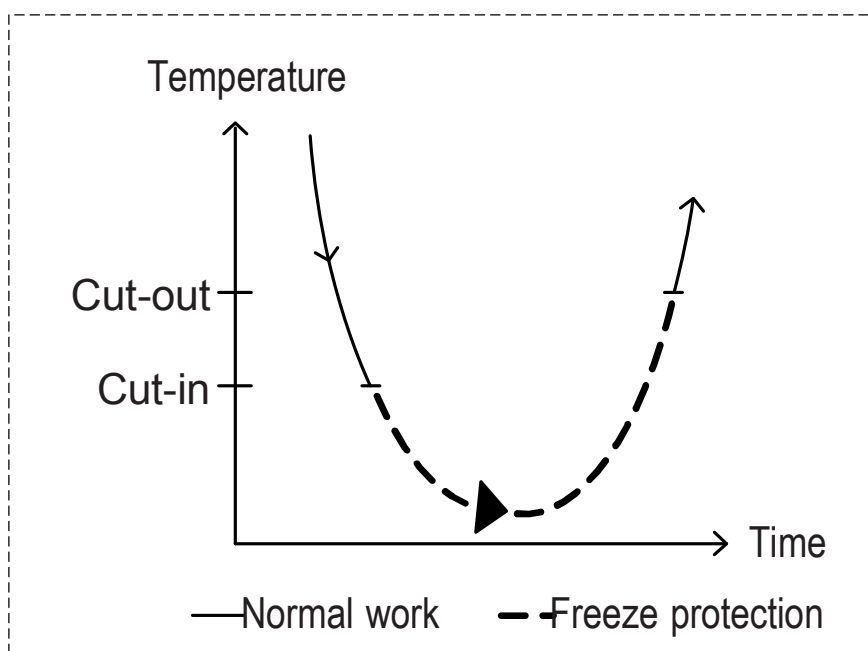
2. Installation Instructions

The MTS/SUPER Thermostat designed for flush mounting in the room to be controlled. It should be located where the occupant can easily read the display and use the controls.

If the built in temperature sensor is being used to measure room temperature, the panel should be placed where the temperature is representative of the general room conditions, away from cold or warm air draughts, radiant heat and direct sunlight.

The panel should not be installed on an outside wall.

- The standard installation height is 1.5 meter (5 feet) from the floor.

WARNING: Risk of Electric Shock and Property Damage. Disconnect power supply before making electrical connections. The installation is to be performed by a qualified electrician.

WARNING: The integrated circuits in the controller are sensitive to static currents. Take suitable precautions.

2. Installation Instructions (cont')

Installation procedure:

1. separate the front display from the back plastic cover by inserting a a small flat screwdriver into each of the three slots as shown in the picture and rotating it gently.

2. Remove the front display and keep it in a safe place.

3. Connect the wires as shown in the enclosed wiring diagram. All terminals accept $1 \times 0.5mm^2/24$ AWG.

4. If necessary, make changes to the DIP switches position as explained in this manual.

5. Place the thermostat in the electrical box and tighten up the 2 screws Europe - Gewiss Box - GW 24 203 or similar

   US - Carlon – B114R or similar or similar

6. Adapt the front frame-panel into its place, by pushing it towards the wall.

2. Installation Instructions (cont')

3. Wiring configuration and DIP Switches

11	T1	*External sensor / Deicing in cool sensor / Door switch / Key-Tag (options)
12	0	
13	IN1	**T2 change over sensor / T3 Deicing in cool sensor / Remote OFF switch / Remote economy switch / External PIR
14	0	
15	AO1	See options on next pages
16	AO2	
L	B	**MTSC Series only !** ***Communication (BACnet/MODBUS)
N	A	

See options on next pages

Main Supply
MTS/MTSC Series:
110/230VAC, 50~60Hz
MTS24/MTSC24 Series:
24VAC, 50~60Hz
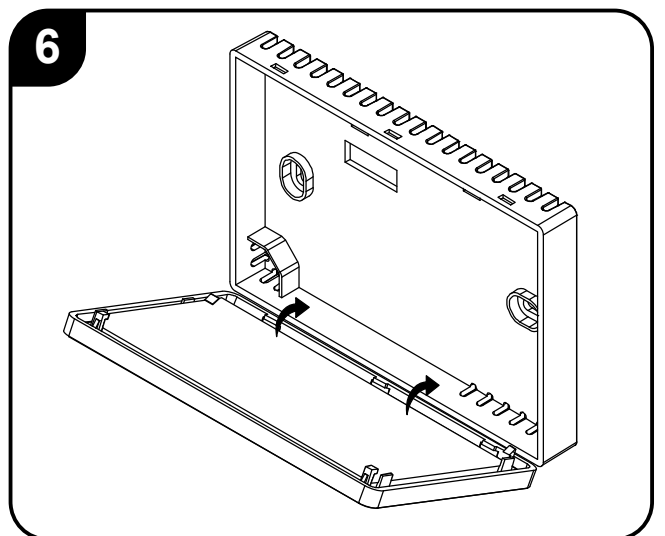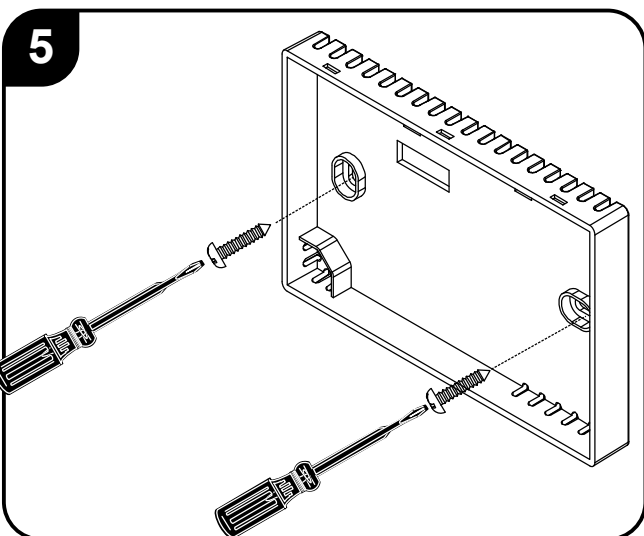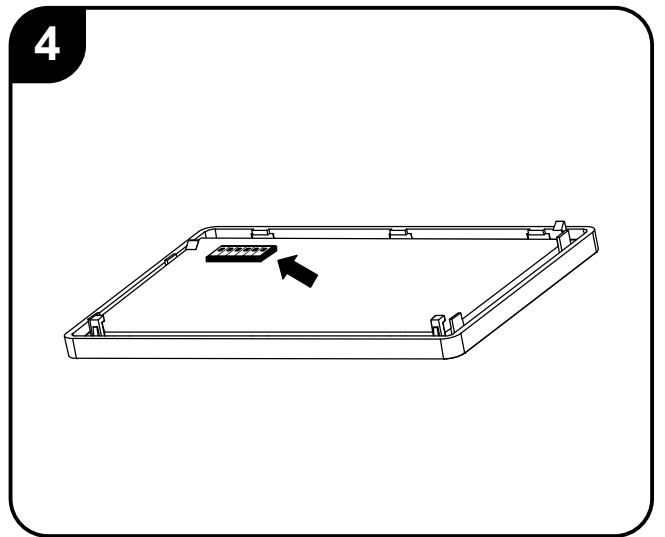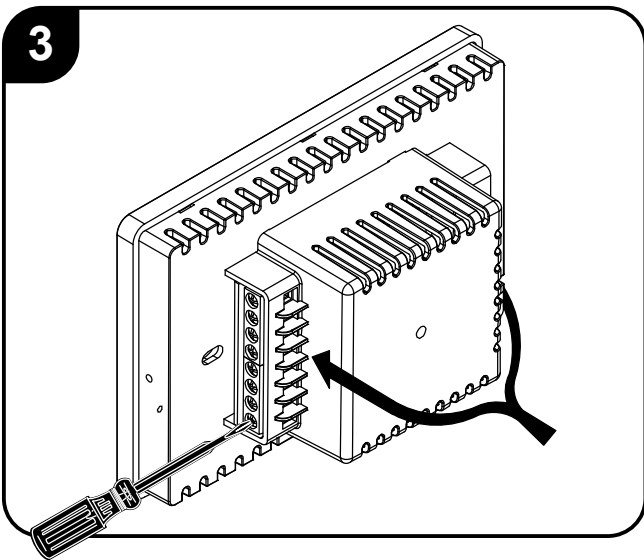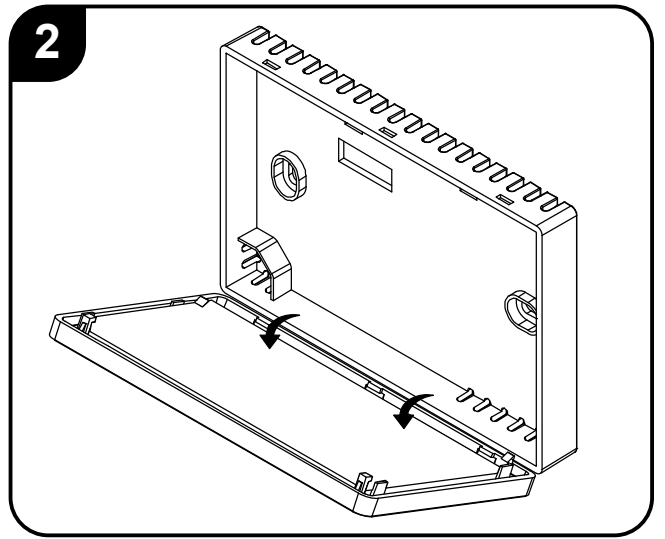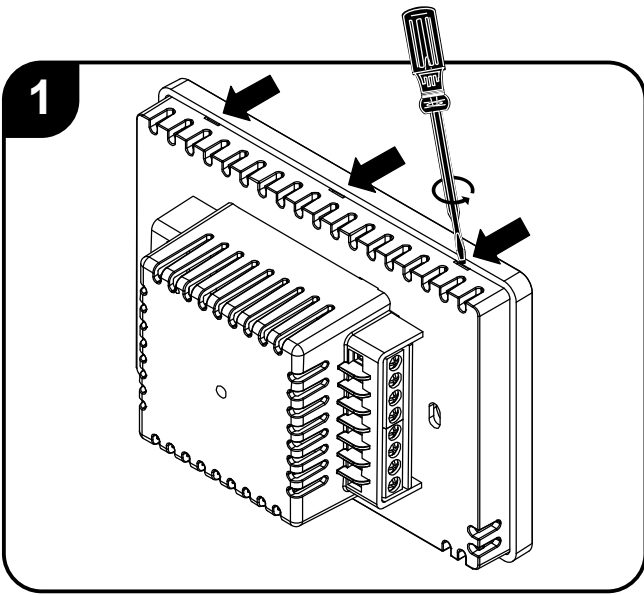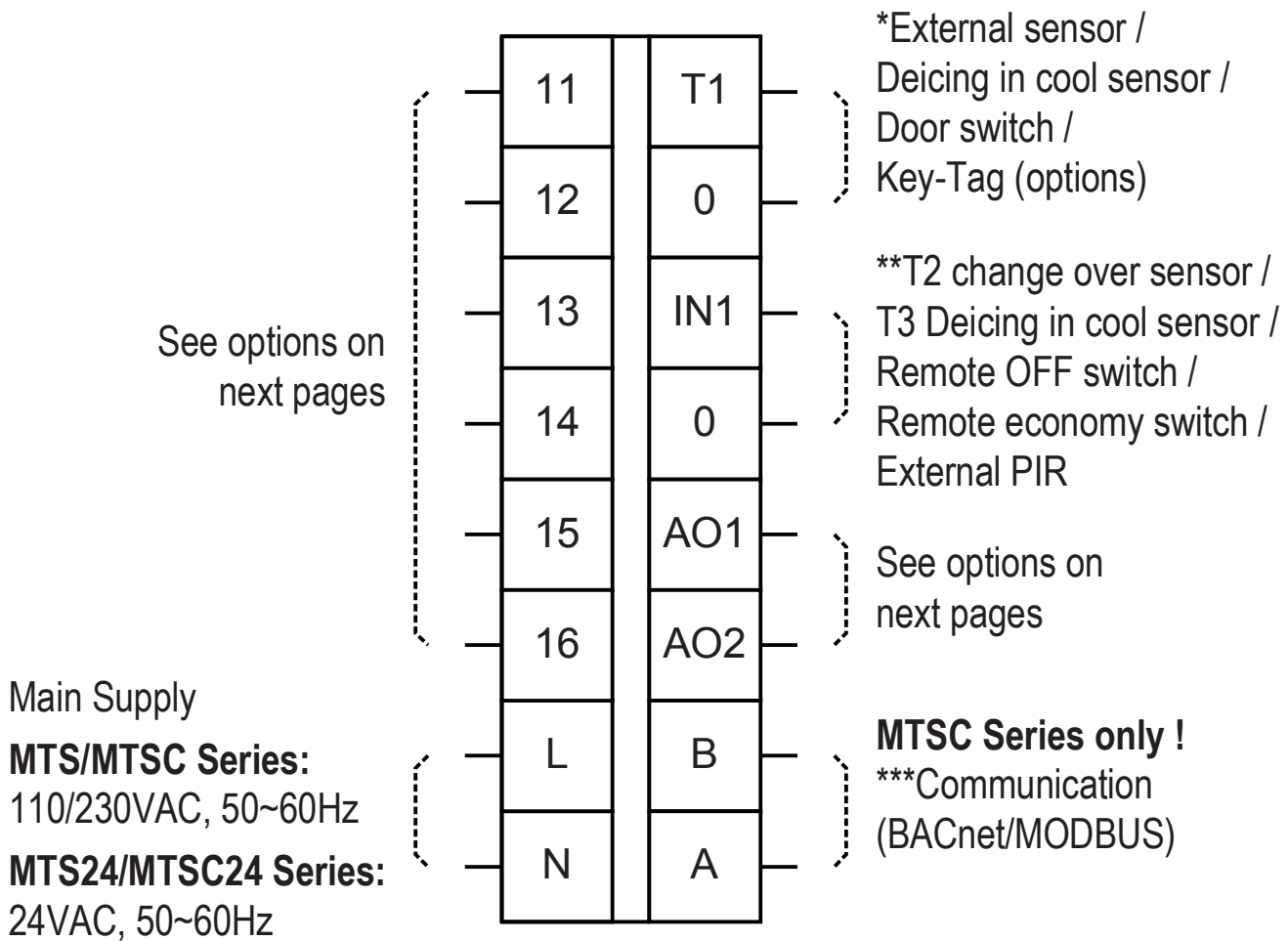
* For T1,0 functionality – refer to parameter P8 in the technician settings section.

** For IN1,0 functionality – refer to parameter P9 in the technician settings section.

***Communication protocol (MTSC Series only) is set by DIP Switch S1.8 as follows:

S1.8 ON – BACnet

S1.8 OFF – MODBUS

Current ratings:

Outputs 11-16   24/110/230VAC - depending on supply voltage,

                       3A maximum each   5A total

Outputs AO1, AO2   0-10VDC, 5mA

3. Wiring configuration and DIP Switches – AC systems

	HC32 1 Speed fan	HP42 1 Speed fan	HP22 3 Speed fan	HP21 3 Speed fan
11	Heat element 3	Heat element 2	Fan high	Fan high
12	Heat element 2	Heat element 1	Fan medium	Fan medium
13	Fan (1 speed)	Fan (1 speed)	Fan low	Fan low
14	Compressor 2	Compressor 2	Compressor 2	Heat element
15	Compressor 1	Compressor 1	Compressor 1	Compressor 1
16	Heat element 1 (see SW1.4 HC)	Heat pump (see SW1.4 HP)	Heat pump (see SW1.4 HP)	Heat pump (see SW1.4 HP)
AO1	X	X	X	X
AO2	X	X	X	X

Fan on/off: 24/110/230VAC, 3A max.
Control - Heat elements, Heat pump, Compressors: 24/110/230VAC, 0.3A max.
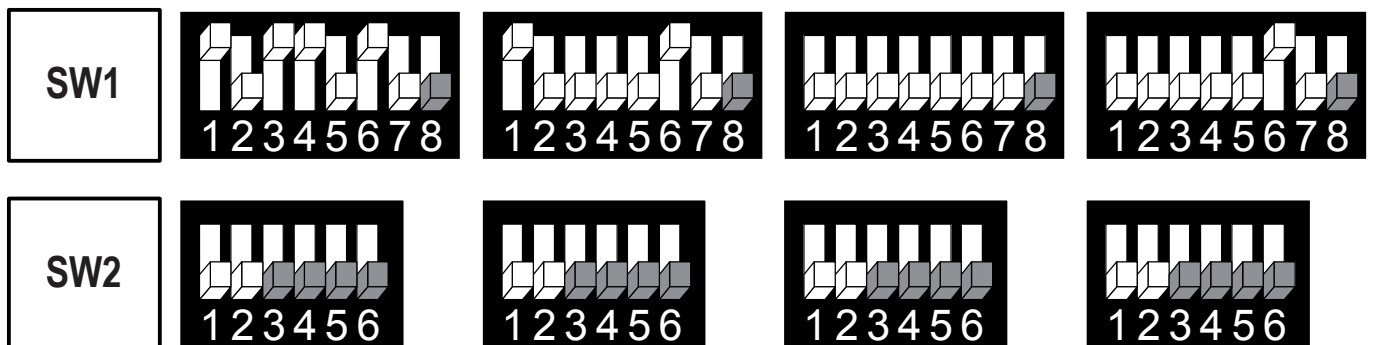
SW1	 1 2 3 4 5 6 7 8	 1 2 3 4 5 6 7 8	 1 2 3 4 5 6 7 8	 1 2 3 4 5 6 7 8
SW2	 1 2 3 4 5 6	 1 2 3 4 5 6	 1 2 3 4 5 6	 1 2 3 4 5 6

MTSC Series: SW1.8 = Communication Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = HP: ON – Heat pump active in cool, OFF – Heat pump active in heat
       HC: ON – Electrical heater, OFF – Oil/Gas heater (no fan)
SW1.5 = ON: Disable compressor delay, OFF – Enable compressor delay
S2.3 – S2.6 – Not in use

HP - Heat pump system   **HC** - Non heat pump system   **##** - Heating/Cooling stages

3. Wiring configuration and DIP Switches – AC systems

	HC21 3 Speeds fan	HP22 Fan VFS	HP21 Fan VFS	HC21 Fan VFS
11	Fan high	Fan high	Fan high	Fan high
12	Fan medium	Fan medium	Fan medium	Fan medium
13	Fan low	Fan low	Fan low	Fan low
14	Heat element 2	Compressor 2	Heat element	Heat element 2
15	Compressor 1	Compressor 1	Compressor	Compressor 1
16	Heat element 1 (see SW1.4 HC)	Heat pump (see SW1.4 HP)	Heat pump (see SW1.4 HP)	Heat element 1 (see SW1.4 HC)
AO1	X	X	X	X
AO2	X	Fan VFS	Fan VFS	Fan VFS

Fan on/off: 24/110/230VAC, 3A max.

Fan VFS: 0-10VDC. 5mA Not isolated

Control - Heat elements, Heat pump, Compressors: 24/110/230VAC, 0.3A max.

SW1	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
SW2	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6

SW1.8 = Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = HP: ON – Heat pump active in cool, OFF – Heat pump active in heat
        HC: ON – Electrical heater, OFF – Oil/Gas heater (no fan)

SW1.5 = ON: Disable compressor delay, OFF – Enable compressor delay

S2.3 – S2.6 – Not in use

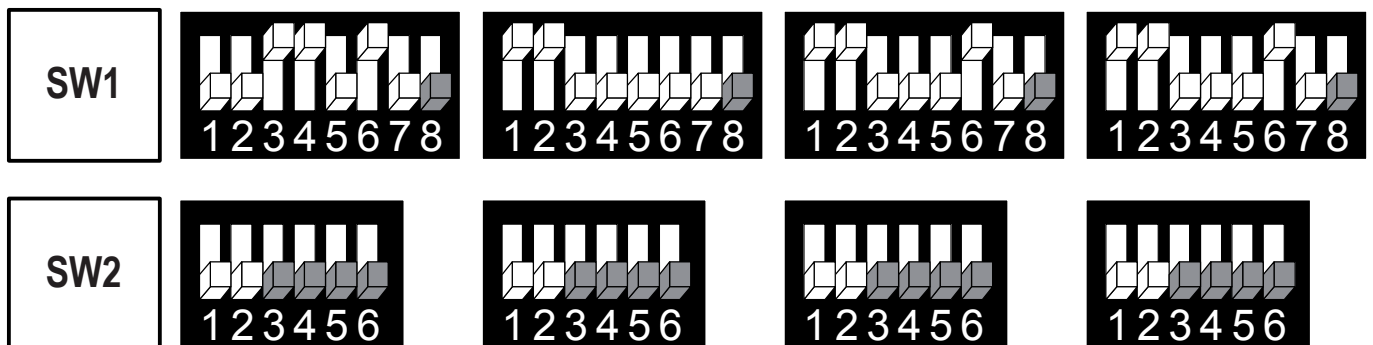**HP** - Heat pump system   **HC** - Non heat pump system   **##** - Heating/Cooling stages

3. Wiring configuration and DIP Switches – Fan coil systems

	2-Pipe 3 Speed	2-Pipe, 3 Speed Cool/Heat PID	2-Pipe Fan VFS	2-Pipe, Fan VFS Cool/Heat PID
11	Fan high	Fan high	Fan high	Fan high
12	Fan medium	Fan medium	Fan medium	Fan medium
13	Fan low	Fan low	Fan low	Fan low
14	Heat element (2nd stage heat)	Heat element (2nd stage heat)	Heat element (2nd stage heat)	Heat element (2nd stage heat)
15	Cool/Heat valve	X	Cool/Heat valve	X
16	X	X	X	X
AO1	X	Cooll/Heat valve PID	X	Cooll/Heat valve PID
AO2	X	X	Fan VFS	Fan VFS

Fan on/off: 24/110/230VAC, 3A max.

Fan VFS, PID valves: 0-10VDC. 5mA Not isolated

Control - Heat elements, Cool/Heat valves, Compressors: 24/110/230VAC, 0.3A max.

SW1	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
SW2	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
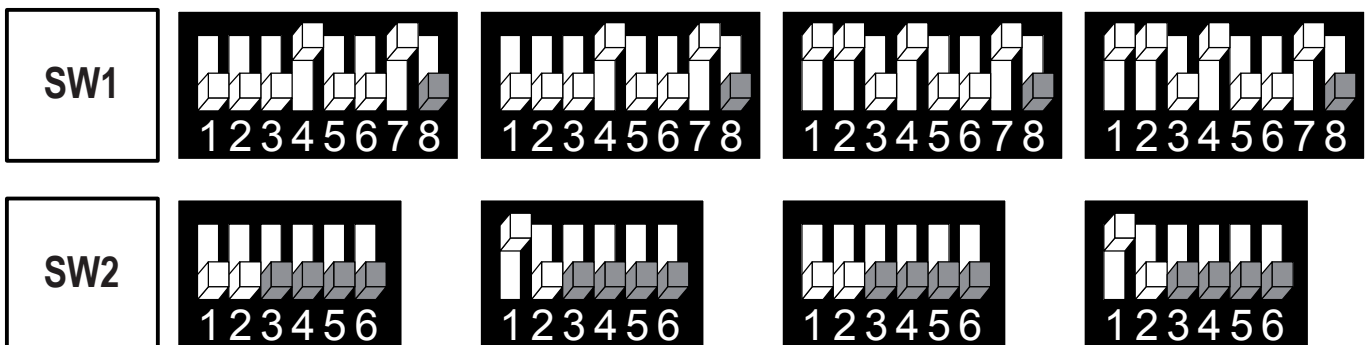
MTSC Series: SW1.8 = Communication Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = Enable/Disable 2nd heating stage: ON – Enable, OFF – Disable
SW1.5 = Chilled beam option (fan will not run with 1st stage cooling) – SW1.5 ON
S2.3 – S2.6 – Not in use

3. Wiring configuration and DIP Switches – Fan coil systems

	4-Pipe 3 Speed fan	4-Pipe, 3 Speed Fan VFS	4-Pipe, 3 Speed Cool-PID	2-Pipe, 3 Speed Cool only**
11	Fan high	Fan high	Fan high	Fan high
12	Fan medium	Fan medium	Fan medium	Fan medium
13	Fan low	Fan low	Fan low	Fan low
14	Heat element (2nd stage heat)	Heat element (2nd stage heat)	Heat element (2nd stage heat)	X
15	Cool valve	Cool valve	X	Cool valve
16	Heat valve (1st stage heat)	Heat valve (1st stage heat)	Heat valve (1st stage heat)	X
AO1	X	X	Cool valve PID	X
AO2	X	Fan VFS	X	X

Fan on/off: 21/110/230VAC, 3A max.

Fan VFS, PID valves: 0-10VDC. 5mA Not isolated

Control - Heat elements, Cool/Heat valves, Compressors: 24/110/230VAC, 0.3A max.

MTSC Series: SW1.8 = Communication Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = Enable/Disable 2nd heating stage: ON – Enable, OFF – Disable
SW1.5 = Chilled beam option (fan will not run with 1st stage cooling) – SW1.5 ON
S2.3 – S2.6 – Not in use

**For Cool only configuration, change technician parameter P9 to "01" (change over sensor) and leave contact IN,0 open.

3. Wiring configuration and DIP Switches – Fan coil systems

	4-Pipe, Fan VFS Cool PID	4-Pipe, 3 Speed Heat PID	4-Pipe, Fan VFS Heat PID	4-Pipe, 3 Speed Heat PID, Cool PID
11	Fan high	Fan high	Fan high	Fan high
12	Fan medium	Fan medium	Fan medium	Fan medium
13	Fan low	Fan low	Fan low	Fan low
14	Heat element (2nd stage heat)	Heat element (2nd stage heat)	Heat element (2nd stage heat)	Heat element (2nd stage heat)
15	X	Cool valve	Cool valve	X
16	Heat valve (1st stage heat)	X	X	X
AO1	Cool valve PID	Heat valve PID (1st stage heat)	Heat valve PID (1st stage heat)	Cool valve PID
AO2	Fan VFS	X	Fan VFS	Heat valve PID (1st stage heat)

Fan on/off: 24/110/230VAC, 3A max.

Fan VFS, PID valves: 0-10VDC. 5mA Not isolated

Control - Heat elements, Cool/Heat valves, Compressors: 24/110/230VAC, 0.3A max.

SW1	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8	1 2 3 4 5 6 7 8
SW2	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6	1 2 3 4 5 6
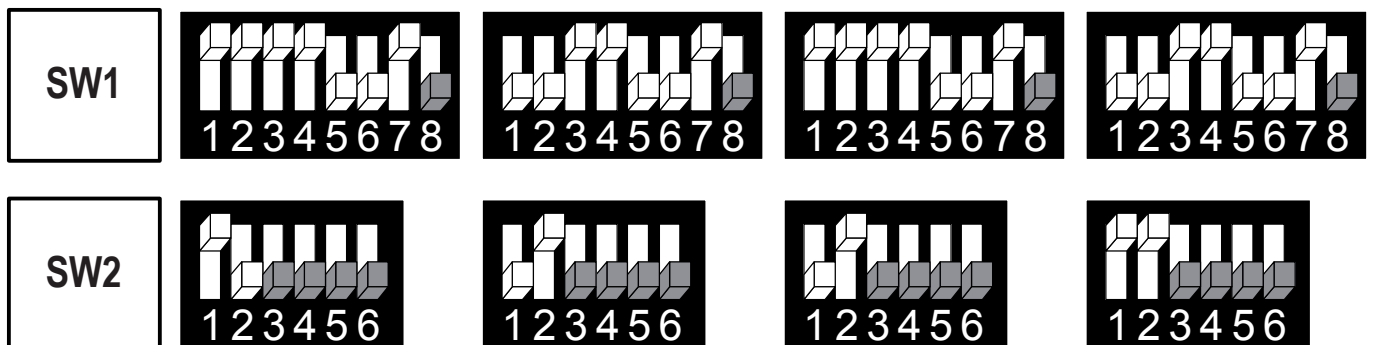
MTSC Series: SW1.8 = Communication Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = Enable/Disable 2nd heating stage: ON – Enable, OFF – Disable
SW1.5 = Chilled beam option (fan will not run with 1st stage cooling) – SW1.5 ON
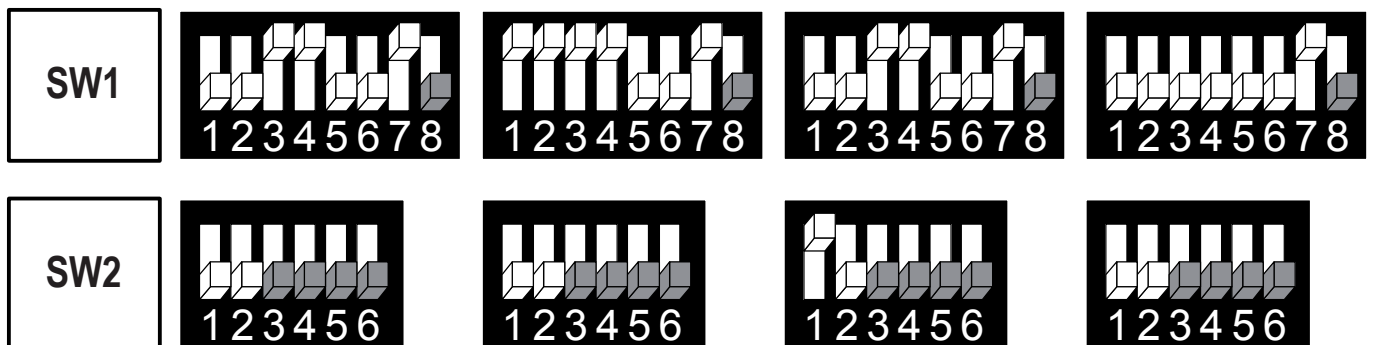**S2.3 – S2.6 – Not in use**

3. Wiring configuration and DIP Switches – Fan coil systems

	4P-3S Floor heating	4-Pipe 3S C-PID Floor heating	4-Pipe VFS C-PID Floor heating
11	Fan high	Fan high	Fan high
12	Fan medium	Fan medium	Fan medium
13	Fan low	Fan low	Fan low
14	Floor heating (1st stage heat)	Floor heating (1st stage heat)	Floor heating (1st stage heat)
15	Cool	X	X
16	Heat (2nd stage heat)	Heat (2nd stage heat)	Heat (2nd stage heat)
AO1	X	Cool valve PID	Cool valve PID
AO2	X	X	Fan VFS

Fan on/off: 24/110/230VAC, 3A max.

Fan VFS, PID valves: 0-10VDC. 5mA Not isolated

Control - Heat elements, Cool/Heat valves, Compressors: 24/110/230VAC, 0.3A max.

SW1	
SW2	

Floor heating – the fan will not run with 1st stage heat

MTSC Series: SW1.8 = Communication Protocol: ON – BACnet, OFF – MODBUS

SW1.4 = Enable/Disable 2nd heating stage: ON – Enable, OFF – Disable
SW1.5 = Chilled beam option (fan will not run with 1st stage cooling) – SW1.5 ON
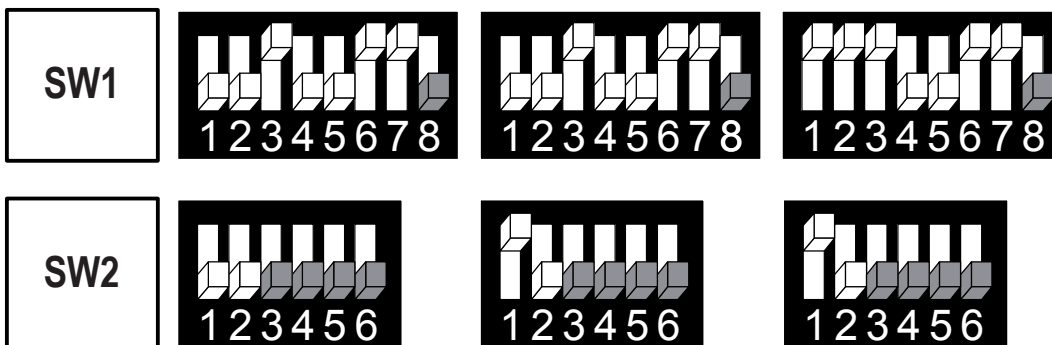**S2.3 – S2.6 – Not in use**

C-PID = Cool valve PID   **H-PID** = Heat valve PID   **VFS** = Fan VFS

4. Technician Settings

Enter technician settings

- Adjust the set-point temperature to 10ºC.

- To enter technician settings, press and hold the ⚙ button for 5 seconds.

- Use the MODE button to advance to the next parameter.

- Use the FAN button to return to return to the previous parameter.

- Press the ⏻ button or wait 60 seconds to exit technician settings and return to normal display.

⚙ (Press and hold)
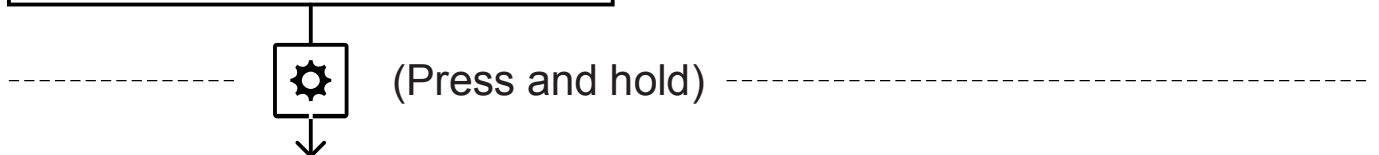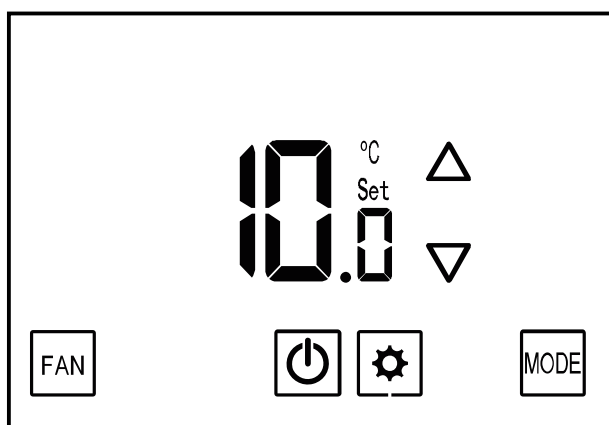
Note: The displayed parameters may depend on system configuration

4. Technician settings (cont')

P1 –   **Offset for temperature readings calibration**
      Range: -6…+6°C / -9…+9°F.
      Default: 0°C / 0°F.

P2 –   **Set point limit for cooling**
      Range: 5…35°C / 41…90°F.
      Default: 5°C / 35°F.

P3 –   **Set point limit for heating**
      Range: 5…35°C / 41…95°F.
      Default: 35°C / 95°F.

P4 –   **Lock the [Fan] button**
      "01" -   [Fan] button Locked
      "00" -   [Fan] button unlocked

P5 –   **Lock the [Mode] button**
      "01" -   [Mode] button Locked
      "00" -   [Mode] button unlocked (default)

P6 –   **Lock the [On/Off] button**
      "01" -   [On/Off] button Locked
      "00" -   [On/Off] button unlocked (default)

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4. Technician settings (cont')

P7 –   **Lock the [+] and [-] buttons (Set buttons)**
"01" -   [+] and [-] buttons Locked
"00" -   [+] and [-] buttons unlocked (default)

P8 –   **Functionality of T1 terminals**
"00" -   T1 terminals are not in use (default)
"01" -   External sensor
"02" -   T3 - Deicing in cool (AC)
"03" -   Door switch*
"04" -   Key-tag*

*Voltage free contacts - for polarity and time delay –
   see technician parameters P12 and P13

P9 –   **Functionality of IN1,0 terminals**
"00" -   IN1,0 terminals are not in use (default)
"01" -   T2 (Change over sensor) in FC / De-Ice in Heat in A/C
             In Cool only configuration, select "01" and leave
             contact open.
"02" -   T3 - Deicing in cool (AC)
"03" -   Voltage free contact - Remote On/Off**
"04" -   Voltage free contact - Remote Economy**
"05" -   External Passive Infrared detector (PIR)

**Voltage free contacts - for polarity and time delay –
   see technician parameters P10 and P11

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4. Technician settings (cont')

P10 – **Polarity of remote switch contact on terminals IN,0 (P09 = "03" or "04")**

"00" - Normally close (default)

"01" - Normally open

P11 – **Time delay of remote switch contact on terminals IN,0 (P09 = "03" or "04")**

Range: 0…999 seconds.

Default: 600 seconds.

P12 – **Polarity of door switch/key-tag contact on terminals T1,0 (P08 = "03" or "04")**

"00" - Normally close (default)

"01" - Normally open

P13 – **Door switch / Door key-tag delay time**

Range: 0…999 seconds

Default: 180 seconds

P14 – **Enable/Disable Auto change over mode**

"00" - Disable Auto change over mode

"01" - Enable Auto change over mode (default)

P15 – **Occupancy sensor logic (PIR)**

"00" - Thermostat turns off when unoccupied and back on when re-occupied

"01" - Thermostat turns off when unoccupied and remains off when re-occupied

"02" - Thermostat uses economy set points (default)

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4. Technician settings (cont')

P16 – Enable/Disable Occupancy sensor
"00" - Disable
"01" - Enable (default)

P17 – PIR (occupancy sensor) delay time
before switching to unoccupied mode (ON delay)
Range: 0…250 minutes, Default: 20 minutes

P18 – Door switch/key-tag logic
"00" - Thermostat turns off when unoccupied
and back on when re-occupied.
"01" - Thermostat uses economy set points
when unoccupied.
"02" - Valves turn OFF and fan running on
low speed when unoccupied.

P19 – PIR (Occupancy sensor) polarity
"00" - Normally open (default)
"01" - Normally close

P25 – Economy set point for cooling
Range: 5…35°C / 41…90°F
Default: 30°C / 86°F

P26 – Economy set point for heating
Range: 5…35°C / 41…90°F
Default: 10°C / 50°F

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4. Technician settings (cont')

P27 – Time on-delay between heating stages
Range: 0…600 seconds
Default: 5 seconds

P28 – Time off-delay between heating stages
Range: 0…600 seconds
Default: 1 seconds

P30 – Beeper ON or OFF
"01" -   Beeper ON (default)
"00" -   Beeper OFF

P31 – Fan ON delay in cooling (seconds) (FC only!)
Range: 0…120 seconds
Default: 0 seconds (no delay)

P32 – Fan OFF delay in cooling (seconds)
Range: 0…120 seconds
Default: 0 seconds (no delay)

P33 – Fan ON delay in heating (seconds) (FC only!)
Range: 0…120 seconds
Default: 0 seconds (no delay)

P34 – Fan OFF delay in heating (seconds)
Range: 0…120 seconds
Default: 30 seconds

---

4. Technician settings (cont')

P35 – **Enable/Disable Freeze protection**
   "01" -   Enable freeze protection (default)
   "00" -   Disable freeze protection

P36 – **Freeze protection cut-in set point**
   Range: 8...15°C / 46…59°F
   Default: 8°C / 46°F

P37 – **Freeze protection cut-out set point**
   Range: 10...17°C / 50…63°F
   Default: 10°C / 50°F

P40 – **View filter counter (hours) – Read only**
   Range: 0…999 hours

P41 – **Reset filter time**
   "00" -   No action - keep counting (default)
   "01" -   Reset filter counter

P42 – **Adjust filter alarm delay time counter (hours)**
   Range: 0…999 hours
   Default: 0 hours (0 = Disable)

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4. Technician settings (cont')

P43 –   Not in use

P44 –   Not in use

P45 –   Cool differential band (On/Off)
Range: 0...5°C / 0…10°F
Default: 1°C / 2°F

P46 –   Cool differential band offset
Range: 0...5°C / 0…10°F
Default: 0°C / 0°F

P47 –   Heat differential band (On/Off)
Range: 0...5°C / 0…10°F
Default: 1°C / 2°F

P48 –   Heat differential band offset
Range: -5...0°C / -10…0°F
Default: 0°C / 0°F

---

4. Technician settings (cont')

P49 – **Shift between Cool and Heat in Auto change over mode**
Range: 0...10°C / 0…20°F
Default: 2°C / 4°F

P50 – **Shift between Cooling stages (AC only!)**
Range: 0...10°C / 0…20°F
Default: 2°C / 4°F

P51 – **Shift between Heating stages**
Range: 0...10°C / 0…20°F
Default: 2°C / 4°F

P52 – **Cool proportional band (FC only!)**
Range: 2...10°C / 4…20°F
Default: 2°C / 4°F

P53 – **Cool proportional low limit (FC only!)**
Range: 0...100%
Default: 0%

P54 – **Cool proportional high limit (FC only!)**
Range: 0...100%
Default: 100%

----

4. Technician settings (cont')

P55 –   Heat proportional band (FC only!)
   Range: 2...10°C / 4…20°F
   Default: 2°C / 4°F

P56 –   Heat proportional low limit (FC only!)
   Range: 0...100%
   Default: 0%

P57 –   Heat proportional high limit (FC only!)
   Range: 0...100%
   Default: 100%

P60 –   Proportional ON percent (FC only!)
   Range: 0...30%
   Default: 30%

P61 –   Proportional OFF percent (FC only!)
   Range: 0...20%
   Default: 10%

----

4. Technician settings (cont')

P63 – Time on-delay between cooling stages (AC only!)
      Range: 0…600 seconds
      Default: 5 seconds

P64 – Time off-delay between cooling stages (AC only!)
      Range: 0…600 seconds
      Default: 1 seconds

P65 – Fan VFS proportional band in cooling
      Range: 2...10°C / 4…20°F
      Default: 2°C / 4°F

P66 – Fan VFS proportional band in heating
      Range: 2...10°C / 4…20°F
      Default: 2°C / 4°F

P67 – Fan VFS Low speed percent in cooling
      Range: 0...30%
      Default: 20%

P68 – Fan VFS Medium speed percent in cooling
      Range: 30...60%
      Default: 50%

P69 – Fan VFS High speed percent in cooling
      Range: 60...100%
      Default: 90%

----

4. Technician settings (cont')

P70 – Fan VFS Low speed percent in heating
Range: 0...30%
Default: 30%

P71 – Fan VFS Medium speed percent in heating
Range: 30...60%
Default: 50%

P72 – Fan VFS High speed percent in heating
Range: 60...100%
Default: 80%

P74 – VFS Medium speed differential
Range: 10...50%
Default: 35

P75 – VFS High speed differential
Range: 10...50%
Default: 35

----

4. Technician settings (cont')

P76 – Fan VFS Low limit in cooling
Range: 0...100%
Default: 0%

P77 – Fan VFS High limit in cooling
Range: 0...100%
Default: 100%

P78 – Fan VFS Low limit in heating
Range: 0...100%
Default: 0%

P79 – Fan VFS High limit in heating
Range: 0...100%
Default: 100%

P83 – View T2 temperature sensor readings
Note: If T2 is not connected, -9.8°C / -9.8°F
will appear on display

P84 – View T3 temperature sensor readings
Note: If T3 is not connected, -9.8°C / -9.8°F
will appear on display

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4. Technician settings (cont')

P85 – **Deice in cool – cut-in temperature (AC only!)**
Range: -20...99°C
Default: 0°C

P86 – **Deice in cool – cut-out temperature (AC only!)**
Range: -20...99°C
Default: 8°C

P87 – **Deice in heat time (AC only!)**
Range: 120...420 Seconds
Default: 300 Seconds

P88 – **Deice in heat break time (AC only!)**
Range: 600...1800 Seconds
Default: 1500 Seconds

P89 – **Deice in heat – cut-in temperature (AC only!)**
Range: -20...99°C
Default: 0°C

P90 – **Deice in heat – cut-out temperature (AC only!)**
Range: -20...99°C
Default: 16°C

P91 – **Compressor delay (AC only!)**
Range: 0...360 Seconds
Default: 10 Seconds

4. Technician settings (cont')

P99 –   One or Two set points (for cool and for heat) (FC only!)
      "00" -   One set point for cooling and heating (default)
      "01" -   two set points – one for cool and one for heat

----

P100 – Enable/Disable Screen dimming
      "00" -   Enable
      "01" -   Disable (default)

P101 – Screen dimming delay
      Range: 0...99 minutes
      Default: 5 minutes

P102 – Dimming percentage value
      Range: 1,5,10...90%
      Default: 10%

P105 – Display brightness
      Range: 50...100%
      Default: 100%

P114 – Cool PID Kp (FC only!)
      Range: 0...100%
      Default: 100%

P115 – Heat PID Kp (FC only!)
      Range: 0...100%
      Default: 100%

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4. Technician settings (cont')

P116 – Cool PID Ki (FC only!)

Range: 0...100%

Default: 0%

P117 – Heat PID Ki (FC only!)

Range: 0...100%

Default: 0%

P118 – Cool PID Kd (FC only!)

Range: 0...100%

Default: 1%

P119 – Heat PID Kd (FC only!)

Range: 0...100%

Default: 1%

P198 – Protocol indication (read only!)

0 - MODBUS

1 - BACnet

P200 – Restore defaults

Press the △ button to restore defaults

Press the ⏻ button twice to return to normal display

Press the MODE **button to return to parameter P1 or wait 60**

seconds to exit technician settings and return to normal display.

5. MAC Address (MTSC Series only)

Enter MAC Address settings

- Adjust the set-point temperature to 11ºC – the button [⚙] will appear on display.

- To enter MAC Address settings, press and hold the [⚙] button for 5 seconds.

- Use the ▽ and △ buttons to change the MAC Address. Set "0" for no communication.

- Press the [⏻] button to return to normal display.

Comments

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