THERMOSTAT USER MANUAL

(TX1007 SERIES)



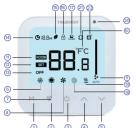
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MODEL NUMBERS

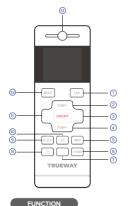
STANDALONE	MODBUS THERMOSTAT
☐ TX10070F024-V2	☐ TX1007ME024-V2M
☐ TX1007OF220-V2	☐ TX1007MEO220-V2M
☐ TX1007ML024-V2	☐ TX1007OF220-VAV-M
☐ TX1007ML220-V2	☐ TX1007ML024-VAV-M
☐ TX1007EC024-V2	
☐ TX1007EC220-V2	
☐ TX10070F220-VAV	
☐ TX1007ML024-VAV	
STANDALONE THERMOSTAT WITH REMOTE CONTROLLER	MODBUS THERMOSTAT WITH REMOTE CONTROLLER
☐ TX10070F024-V2R	☐ TX1007ME024-V2MR
☐ TX1007OF220-V2R	☐ TX1007MEO220-V2MR
☐ TX1007ML024-V2R	
☐ TX1007ML220-V2R	
☐ TX1007EC024-V2R	
☐ TX1007EC220-V2R	

LCD DISPLAY & KEYS DESCRIPTION



- 1 Mode Key
- 2 Fan key
- 3. Power key 4 Un key
- 5 Down key
- 6. Cooling Mode
- 7 Heating Mode
- 8 Ventilation Mode
- 9. Fan speed Auto.Low. Medium High
- 10 Temperature unit C/F
- 11. Room Temperature 12 Set-Point
- 13 Thermostat Off

- 14 Timer on-off
- 15 Energy Saving Mode
- 16. Kev Pad Lock 17 Hotel Key Card
- 18. Compressor (Reserved
- for model with compressor) 19 AUX HEAT (Reserved
- for model with AUX HEAT)
- 20. INFRARED SENSOR (Reserved for model with IR)
- 21 Reserved
- 22. Reserved



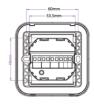
- Fan button(for selecting high, medium, low and auto)
- Up button(for Temperature increase+)
- (3) Reserved
- (4) Down button (for Temperature decrease-)
- (5) Timer (for thermostat/system turning on-off)
- Strong(for strong/high speed fan)
- (7) Reserved
- (8) Key pad lock/unlock(press for 5 seconds)
- Sleep(for weak/low speed fan)
- (10) Temperature Unit °C/°F
- (11) Reserved
- Mode button (for selecting Cooling/Heating
 - / Ventilation Mode)
- (13) Reserved

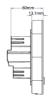
- Application options for 2-pipe FCU/ECM FAN/VAV units cooling or heating.
- Manual 3-speed and Auto Fan Control.
- Kev Pad Lock.
- Either Room Temperature or Set-point is displayed.
- · Back-light time setting.



PRODUCT DIMENSION FOR 9-TERMINAL BACK BOX

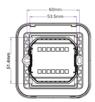






PRODUCT DIMENSION FOR 14-TERMINAL BACK BOX







OPERATION INSTRUCTION

VALVE CONTROL

Thermostat acquires the room temperature via its integrated sensor and maintains the set-point by modulating/ON-OFF output.

POWER ON OR OFF

By pressing POWER button '6' to change the power On/Off status.







INCREASE / DECREASE

In the ON state, press UP "A" or "Y", DOWN to increase or decrease the setting parameters.





HEAT/COOL/VENT

Pressing the MODE "M" button to select heat "#"

Cool "A" or Ventilation "A" mode Note: There's NO ventilation mode in VAV models







TEMPERATURE DISPLAY

Either the room temperature or the set-point is displayed.







Display set-point while pressing UP or DOWN button

FAN OPERATION (NOT AVAILABLE IN VAV MODELS)

Fan operation available for manual mode and automatic 3-speed mode and the fan control types can be configured as Ao = Automatic fan only. CO = Constant (Manual) fan only. BO = Both auto &manual in ISU code #3 In Automatic 3-Soeed mode : The fan will be switched upon the differences between room temperature and the set-point as per following logic.

In the Cooling Mode:

When the room temperature is 3°C or above higher than set-point, the fan will be switched to Auto high When the room temperature is 1.5~2.5 °C higher than set-point, the fan will be switched to Auto medium. When the room temperature is 0.5-4°C higher than set-point, the fan will be switched to Auto low.

In the Heating Mode:

When the room temperature is 3°C or above lower than set-point, the fan will be switched to Auto high. When the room temperature is 1.5~2.5°C lower than set-point, the fan will be switched to Auto medium. When the room temperature is 0.5~4°C lower than set-point, the fan will be switched to Auto low.



If ISU code #3 is set to AO (Automatic Mode Only) the fan speed will be switched upon the differences of room temperature & set point only. It can not change the fan speed by pressing FAN "2" button.

If ISU code #3 is set to CO (Manual mode only), the fan can be switched to the selected speed via control output Fh,Fm, Fl by pressing FAN 2 button.

If ISU code #3 is set BO (both Manual and automatic mode), the fan can be switched to manual high, medium and low speed or automatic 3-speed by pressing FAN ** button.



Manual Fan high speed



Manual Fan Medium speed



Manual Fan Low speed

While ISU code#16 sets to 1, fan off differential temperature 0.0°C, fan on differential temperature 0.5°C

KEY LOCK

The default status of Key lock is all buttons available and it can be changed in ISU mode. Key lock function includes the following settings: All buttons are available (Default) Mode button is locked out Fan and mode button are locked out All buttons are locked.



Key pad lock

ENERGY SAVING MODE

A dy contact fusch as hotel key cardy or button press life pressing MODE. "It "button for 3 seconds can activate the energy saving mode with a floor appearing on the screen!". The dy contact can be selected as normal open or normal color in ISU code/TRI factivated by dy contact. All buttons will be locked except the multi-key for ISU, if activated by button press, press "0". POWER button can stop energy saving mode! I energy saving mode is energy saving mode is energy saving mode and the mode settable, the lest pointing set-point in ISU code/TRI 619 or via remote BMS Moditus points. For heating mode, the range of remote settable kheating set-point as form in ISU code/TRI 619 or via remote BMS Moditus points. For heating mode, the range of remote settable kheating set-point is from 12° or 2° or and feelant value is 26°°C. The value can be changed with step of 0.5°C. The energy saving mode which activated by button press will not be emeroided wheth themsoft spower code."





Energy saving mode activated

Hotel Key card activated

RS-485 ID SETTING AND CHECKING

Press MODE "M" and POWER "O buttons together for 5 seconds to enter into ISU settlings, press UP "A" or DOWN "M, to check ISU code, while you select ISU Item 06 press M, the number will be flashing with ETE, press UP or DOWN to select modus ID from 1-64, and press FAN" 2" button to save and exit directly. Note: For VAV modes, press SET "10", button to save instead.







TIMER ON OFF

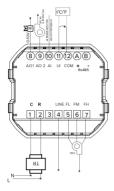
In the thermostat ONOFF status, press and hold POWER button ${}^{\bullet}$ until clock area "(D)In' is flashing, press UP ${}^{\bullet}$ or DOWN ${}^{\bullet}$, button to select the lime for ONOFF the thermostatiselest "0] It' from one hour, select "(0)P(For 2 hours, select "1] P(F for 12 hours, note of NOFF range available in 1.12 hours, 1 hour per step. Press FAN ${}^{\bullet}$ button to confirm.

Note For VAV models, Press SET "(3) button to confirm instead.

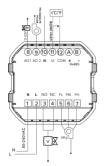




TX1007 MODBUS



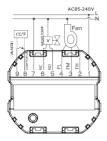
TX1007ME024-V2/TX1007ME024-V2R



TX1007MEO220-V2/TX1007MEO220-V2R

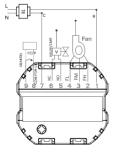
NO	TERMINALS	DESCRIPTION
1	C	24V NEUTRAL
2	R	24V ACTIVE
3		
4	LINE	LINE FOR FAN
5	FL	LOW SPEED FAN
6	FM	MEDIUM SPEED FAN
7	FH	HIGH SPEED FAN
8	AO1	0-10VDC ACTUATOR
9	AO2	0-10VDC ECM FAN
10	Al	VALVE FEEDBACK
11	UI	AI (REMOTE SENSOR) & DI (KEY CARD)
12	COM	COM FOR AO & UI
Α	+	RS485 MODBUS
В	-	RS485 MODBUS

NO	TERMINALS	DESCRIPTION
1	N	NEUTRAL LINE IN
2	L	LIVE LINE IN
3	NO	VALVE OPEN
4	NC	VALVE CLOSE
5	FL	LOW SPEED FAN
6	FM	MEDIUM SPEED FAN
7	FH	HIGH SPEED FAN
8	A01	0-10VDC ACTUATOR
9	A02	0-10VDC ECM FAN
10	Al	RESERVED FOR VALVE FEEDBACK
11	UI	AI (REMOTE SENSOR)& DI (KEY CARD)
12	COM	COM FOR UI& AD
А	+	RS485 MODBUS
В	-	RS485 MODBUS



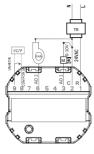
TX10070F220-V2/TX10070F220-V2R

NO	TERMINALS	
1	L	LIVE LINE IN
2	FH	HIGH SPEED FAN
3	FM	MEDIUM SPEED FAN
4	FL	LOW SPEED FAN
5	NO	NO FOR VALVE/ COMPRESSOR
6	NC	NC FOR VALVE/ COMPRESSOR
7	N	NEUTRAL LINE IN
8	СОМ	COM FOR UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOR)&DI(KEY CARD)



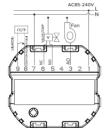
TX10070F024-V2/TX10070F024-V2R

NO	TERMINALS	
1	R	24V ACTIVE
2	FH	HIGH SPEED FAN
3	FM	MEDIUM SPEED FAN
4	FL	LOW SPEED FAN
5	NO	NO FOR VALVE/ COMPRESSOR
6	NC	NC FOR VALVE/ COMPRESSOR
7	С	24V NEUTRAL
8	сом	COM FOR UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOPI&DIKEY CARD)



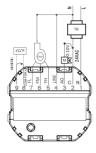
TX1007EC024-V2/TX1007EC024-V2R

NO	TERMINALS	
1	R	24V ACTIVE
2	С	24V NEUTRAL/COM FOR AO (0-10VDC)
3	AO1	ANALOG OUTPUT 0-10VDC FOR ACTUATOR
4		
5		
6	A02	ANALOG OUTPUT 0-10VDC FOR ECM FAN
7		
8	COM	COM FOR UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOR)&DI(KEY CARD)



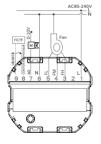
TX1007EC220-V2/TX1007EC220-V2R

NO	TERMINALS	
1	L	LIVE LINE IN
2		
3	AO	ANALOG OUTPUT 0-10VDC FOR ECM FAN
4		
5	NO	NO FOR VALVE/ COMPRESSOR
6	NC	NC FOR VALVE/ COMPRESSOR
7	N	NEUTRAL LINE IN
8	СОМ	COM FOR AO(0-10VDC) & UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOR)&DI(KEY CARD)



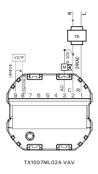
TX1007ML024-V2/TX1007ML024-V2R

NO	TERMINALS	
1	R	24V ACTIVE
2	С	24V NEUTRAL/COM FOR AO (0-10VDC)
3	AO	ANALOG OUTPUT 0-10VDC FOR MODULATING ACTUATOR
4	LINE	LINE FOR FAN
5	FH	HIGH SPEED FAN
6	FM	MEDIUM SPEED FAN
7	FL	LOW SPEED FAN
8	COM	COM FOR UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOR)&DI(KEY CARD)

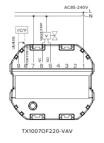


TX1007ML220-V2/TX1007ML220-V2R

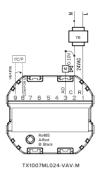
NO	TERMINALS	DESCRIPTION
1	L	LIVE LINE IN
2		
3	FH	HIGH SPEED FAN
4	FM	MEDIUM SPEED FAN
5	FL	LOW SPEED FAN
6	N	NEUTRAL LINE IN
7	AO	ANALOG OUTPUT 0-10VDC FOR MODULATING ACTUATOR
8	COM	COM FOR AO(0-10VDC) & UI
9	UI	UNIVERSAL INPUT AI(REMOTE SENSOR)&DI(KEY CARD)



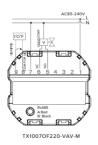
NO	TERMINALS	
1	R	24V ACTIVE
2	С	24V NEUTRAL/COM FOR AO
3	AO	ANALOG OUTPUT FOR 0-10V VALVE
4		
5		
6		
7		
8	COM	COM FOR UI
9	UI	AI(REMOTE SENSOR)& DI(KEY CARD)



	TERMINALS	DESCRIPTION
1	L	LIVE LINE IN
2		
3		
4		
5	NO	NO FOR VALVE/ COMPRESSOR
6	NC	NC FOR VALVE/ COMPRESSOR
7	N	NEUTRAL LINE IN
8	СОМ	COM FOR UI
9	UI	Al(REMOTE SENSOR)& DI(KEY CARD)



NO	TERMINALS	
1	R	24V ACTIVE
2	С	24V NEUTRAL/COM FOR AO
3	AO	ANALOG OUTPUT FOR 0-10V VALVE
4		
5		
6		
7		
8	COM	COM FOR UI
9	UI	AI(REMOTE SENSOR)& DI(KEY CARD)



NO	TERMINALS	DESCRIPTION
1	L	LIVE LINE IN
2		
3		
4		
5	NO	NO FOR VALVE/ COMPRESSOR
6	NC	NC FOR VALVE/ COMPRESSOR
7	N	NEUTRAL LINE IN
8	СОМ	COM FOR UI
9	UI	AI(REMOTE SENSOR)& DI(KEY CARD)

ABOUT OUR BUSINESS

Trueway is a renowned brand of digital room Thermostat, delivering high quality and durable products. Quality checking is a tedious procedure and it has to undergo many steps including manual and system generated. But we aren't in a hurry, because we believe the success stands in customer satisfaction', so we have to ensure the complete perfection of our products.

TRUEWAY IS ONE OF THE POPULAR THERMOSTAT SUPPLIERS GLOBALLY

Highly qualified and declicated staff, consistent updates and innovation made a name for itself in global markets. Our declicated team is constantly striving to be more connected, forward-looking, and customer-centric. Our mission is to comprehend the upcoming brends of Thermostats in Air Conditioners and forces that will shape Air Conditioning Accessories in the future and move swiffly to prepare for what's to come. We are trying to expand our business all over the world to create a portfolic that brings to the world with top Brand for Thermostat products that anticipate and satisfy our esteemed customer's upcoming demands. Our product specialists will help our esteemed customers to choose the right product from our wide range to meet their expectations. Our main obscircule is to mortisch those results mortisch with a visible price dissolation on schedule.

In order to manage and meet our ever-growing demand for our Brand of Thermostat products, we are strategically located at Asia's business hub Hongkong. Trueway products are manufactured with high qualify components and designed by world's most proficient engineers. Also, we deeply understand the significance of after sales service and ensure complete customer satisfaction with our Thermostat Supplier. We are facilitated with a dedicated team of sales and service; they are always equipped and ready to cater to the needs of all our esteemed customers. We have a well-qualified R&D team of air conditioning products with many years of experience reflecting high degree of technology integration and development capabilities. Trueway's ultimate goal is to achieve a global leadership in air conditioning solution provider's status.

We eventually center around making long term value for our clients and employees through our passionate and disciplined management which together drive sustained competitive advantage.

The user manual is subject to change without notice. For (ISU)Setup function settings and options, and for Modbus and Wi-Fi model, please contact Trueway team to get master catalog for commissioning.

Thank you for choosing Trueway's product!

For Technical support contact : If info@truewaycontrols.com

