THERMOSTAT USER MANUAL (TX917DX SERIES)

INDEX

1 . MODEL NUMBERS	1
2. LCD DISPLAY & KEYS DESCRIPTION	2
3. FUNCTION	2
4. OPERATION INSTRUCTION	2,3,4,5
5. CONFIGURATION SETTINGS	6
6. TERMINAL DESCRIPTION	4,5,6,7
7. WIRING DIAGRAM	8
9 AROUT OUR RUSINESS	9

MODEL NUMBERS

☐ TX917DX024-2C2H

LCD DISPLAY & KEYS DESCRIPTION



FUNCTION

- 1.History data
- 2. Adjusting the optional settings
- 3. Day Indicator & Clock
- 4 .System Mode : Heat, Cool, Auto, Off
- 5 .Fan mode: Auto. On
- 6 .Humidity, temperature chart
 - a, If humidity less than 30%, the pointer will be in the Red area
 - b, If humidity is between 30% and 60%, the pointer will be in the Green area
 - c, If humidity value is more than 60%,the pointer will be in the Gray area

- 7. Power ON/OFF
- Holiday : Displayed when thermostat is in holiday mode
- 9. Schedule: Programmable Operation
- 10. Setup Button
- Adjusting the Setting Temperature or Turn Page
 Adjusting the Setting Temperature or Turn Page
- 13. Setting Temperature display
- 14.Room Temperature display
- 15. °C or °F Display
- 16.Displayed " Heating / Cooling /Auto " symbol

OPERATION INSTRUCTION

FAN MODE

SYSTEM MODE

Press the "Fan" on the Main Display, and change the Fan mode to Auto / On single speed.

Press the icon "System" on the home screen, change the system mode from Heat, Cool, Auto, Off

HISTORY

Show the Running Time (Hours) /Room Temperature (°C) /Room Humidity (%) of the environment in the last 7 Days.

- 1. Press the icon 6 and enter Feature Settings
- Press the "03. History & Energy Tariff" option. There are three options:



EAN MODE

SYSTEM MODE

Press the "Fan" on the Main Display, and change the Fan mode to Auto / On single speed.

Press the icon "System" on the home screen, change the system mode from Heat Cool Auto Off

HISTORY

Show the Running Time (Hours) /Room Temperature (°C) /Room Humidity (%) of the environment in the last 7 Days.

- Press the icon (6) and enter Feature Settings
- 2. Press the "03. History & Energy Tariff" option.
 - There are three options:
 - Hrs = show the device running time
 - Kw/h= set the unit kw consumption per hour
 - \$/Kwh = set the cost of per Kw/h and show the energy cost. select what data you need to show on the history chart.
- Press the icon 🖒 to save and return to main screen. 4.
 - Press the icon (I) History Chart will show your preset related data

Note: The power consumption cost is for reference only, not used for specific payment youchers.

HISTORY

Thermostat will maintain this temperature for the duration of the holiday and will then automatically return to the program mode on your return.

- 1 press the "holiday" and enter setting screen.
- 2 set the year/month/day values under holiday start.
- 3 set the year/month/day values under holiday end.
- 4 press the icon to save and return to main display.
- Please note the Sliday setpoint = defrost temperature

HUMIDITY AND TEMPERATURE

Press the icon at to check Temperature and Humidity.



SCHEDULE

- 01 Press the icon (→ Press "Feature Settings" → press "05.schedule"There are four options: Weekday / weekend, 7 Days, 24Hours, None For example, select 7days, Press icon 🖨 to save and return to main display.
- 02 Press the "schedule" on the main display. Monday to Sunday can be selected to edit.
- 03 Press "Monday", there are six options WAKE/LEAVE/RETURN/SLEEP /TIMER5/TIMER6 (each time period has Enable/Disable options)



- 04 Press the column of "Hour/Minute/Degrees" to set your desired values For Example: 7 (Hour): 30 (Minute) means WAKE period starts at 07:30am in the morning with temperature setpoint XXF
- 05 Repeat the steps above to set the 6 periods of each day, normally we only set 2 periods (commercial building) or 4 periods(residential building) per day, the Timer5 and Timer6 are only for special use
- 06 Press the icor to exit and save, repeat the steps above to set each day.Or you can also press "Copy To" to select any date to copy the period setting you just set and press icon to exit and save

Please note only Morning, Day, Evening, Night can be updated by APP

For example: In the program of Monday:

WAKE : the setting time is 07 (hour): 00 (minute) with temperature 75F
LEAVE : the setting time is 08 (hour): 00 (minute) with temperature is 85F
RETURN : the setting time is 18 (hour): 30 (minute) with temperature is 75F
SIFEP : the setting time is 23 (hour): 00 (minute) with temperature is 78F

Four time periods will operate as below:

07:00 - 8:00 : during this WAKE period the temperature will remain at 75F 08:00 - 18:30 : during this LEAVE period the temperature will remain at 85F 18:30 - 23:00: during this RETURN period the temperature will remain at 75F 23:00 - 07:0 : during this SLEEP period the temperature will remain at 78F

HOLD

The Temperature hold function allows you to manually override the current operating program and set a different temperature for a desired period. Press icon Press the "Hold" • Press the first column of "Hold Temp" • Use arrow to set the desired Hold Temperature (Temp. Range 41-415F). Press the Second/Third columns to set Hour/Minute.Press the icor to save and return to main display. You will see "HoLD sef, Left"." displayed on screen.

CLOCK SETTING

Press the icon ♠ + Press "Date and Time". Press each column and use arrow to set Year/Month /Day and time. If the "Time Sync" option is selected and thermostat connects to internet, it will automatically sync internet time every hour. If you need to change time and date manually this option must be disable. Press the icon ♠ to save and return to main display.

DISPLAY BRIGHTNESS

Press the icon ô → Press "Display Brightness"

Ambient Light Dimming is: Automatically adjust the backlight brightness.

Ambient Light Dimming is: Manually adjust the backlight brightness.

Change to desired brightness, press icon to save and return to main menu.

STANDBY SCREEN

SCREEN LOCK

Press the icon → Press "Lock" → Enable Lock Pin to option → Press each column to set your pin → Press icon to save and return to main screen.

Use preset password to unlock, If you forget password, the Master PIN is 8657

TEMPERATURE FORMAT

Press the icon **(()** → Press "Feature settings"

Press "01. Temperature Format" and select C or F as your temperature format

Press the icon 🥱 twice to save and return to main screen

TEMPERATURE LIMIT

Press the icon (6) → Press "Feature settings"

Press menu "02. Temperature limit" to set the Min&Max temperature range

Press the icon to save and return to main screen

DEFROST

The thermostal automatically enters the Defrost Mode when the room temperature drops below the defrost temperature. Press icon ⊕ →Press "Feature settlings" → Press the "04 Defrost" option → Enable this function < == ◆ Use the arrow key to adjust the temperature.

Press the icon to save and return to main screen

SWITCH DIFFERENTIAL

This function is to increase the switching differential temperature of the thermostat. The system default value is 1F, if the desired temperature is set to 76F, the thermostat will start heating at 75F and stop at 76F degrees. If the default value is 2F degree, starts heating at 74F, stop at 76F. Press the icon ↑ Press "nestallation settings" ◆ Enter password1234◆ Press "continue" ◆ Find "Switch Difference Temperature" and set the value

DEADBAND TEMPERATURE

Deadband temperature only available if the mode is selected to AUTO The cool mode activates when Room Temperature - Setpoint Temperature ≥Swtich Diff+Deadband Temperature/2.The heat mode activates when Setpoint Temperature - Room Temperature ≥Swtich Diff+Deadband Temperature/2

DAYLIGHT SAVING TIME

Press the icon
→ Press "Date and Time" → Press "03. Daylight Saving Time (DST)" → Enable

(Disable Auto DST
→ Disable Auto DST
→ Disable Auto DST
→ Option There are three options: European Union, US & Canada,

Australia &New Zealand Select your local time zone → Press
→ key to save and return to main

screen

SYSTEM INFORMATION

Press icon
→ Press "System Information" it shows the Version Number: 2.0 "OTA - If there is new firmware in cloud server, you will see the version number and the button "Upgrade" on the bottom of this screen, press this button, the thermostat would download the new firmware and upgrade itself to new version. Press the
¬ Key to Exit

SENSOR TEMPERATURE CALIBRATION

Press the icon ♠ • Press "Feature settings" • Select "06- Sensor selection" There are two types of sensors, select the internal or outdoor sensors, and press the words to enter the calibration screen

RESET TO FACTORY SETTINGS

Warning: Reset function will delete all your pre-settings and return to the factory default settings.

CONFIGURATION SETTINGS

Press the icon ♦ Press icon "Feature settings" to enter the menu

SETTINGS	OPERATIONS					
Hold	Temporary Hold for temperature and time					
Language	Select language interface you will use					
Date & time	01 . Time zone 02. Date&time 03. Daylight saving time(dst)					
Display brightness	Ambient light diming					
Screen saver	Standby screen 01 . Time: 3min, 10min, just night 02. Type: clock, default, off screen					
Lock screen	4 number pins					
Network settings	01. Wifi setup 02. Pair to app 03. Or code 04. Mac address 05. Modbus Address					
Feature settings	01. Temperature format F or C 02. Min or Max Temperature limit 03. History& Energy Tariff 04. Defrost Enable/Disable with desired Temp. 05. Schedule: Weekday/weekend; 7Days; 24Hrs; None 06. Sensor selection: Internal/ outdoor sensor 07. Humidity sensor calibration 08. Open Window Function 09. Filter Reminder					
Installation settings	Set system settings 01. System equipment type: Heat pump, standard Head/Coot, Heat Only, Cool only 02. Auxoliary, None; Second stage heating; Humdiffer; Dehumdiffer 03) Fan Option: Heat&Coot Cool only 04) Reversing valve: '08 05) Compressor restart delay time: 0+15mins 06) Deaddband Temperature: 0+12F 07) Switch differential Temperature 0+12F 08) Injust signed None; Cooupy in open-circuit; Occupy in short-circuit Modbus Address					
System information	Version number, QR code					
Factory Reset	Reset to factory setting					

TERMINAL DESCRIPTIONS



WIRING REQUIREMENTS

The following table shows the maximum wire lengths allowed: Thermostat to HVAC Equipment 18 AWG 20 AWG 22 AWG 128 ft/380 m 80 ft/240 m 50 ft/150 m

TERMINALS	DESCRIPTION
RC	24 VAC Cool
RH	24 VAC Heat
С	24 VAC Common
Y1	First stage of cooling or first stage heat pump
Y2	Second stage of cooling or second stage heat pump
W/O.B	W : First stage of conventional heating O.B: Heat pump reversing valve (supports both O type and B type)
W2/Aux	W2 : Second stage of conventional heating Aux : Auxiliary Heat, humidifier, dehumidifier, or ventilator
G	Fan
S1	Outdoor air sensor
Gnd	Ground
Ocy	Occupy input (the setback temperature will be 6F higher in cool mode, 6F lower in heat mode)
A	Modbus RS485 +;
В	Modbus RS485 -

Note: If you have only R wire, please connect to RC only.

WIRING DIAGRAM

	Y	G	101	101	Y	<u> </u>	0
	Y2 W/O.B	RC RH		10	Y2 W/O.B □	RC RH	
	W2/Aux	c			W2/Aux	c	
	A(485+) B(485-) GND	Occ S1	000		A(485-) B (485-) GND	Occ S1	00
ovi	entional 1	Heat (3-w		Cov	entional 2 H	leat with	Fan
	Y ==	≡G ≡RC	0		Y ==	==G ==RC	
	W/0.B	RH == c	000		W/O.B C	RH = C	
2	W2/Aux	Occ		116	A(485+)	Occ	
	8(485-) GNO	S1	0		8 (485-) GNO	\$1	
	Convention	nal 1 Cool		Conve	entional 1 H	eat and	Cool
	Y = Y2 =	=== G == RC	01		Y ===	≡G ≡RC	
	W/O.B	RH			W/O.B	RH	00
	W2/Aux	Occ		100	W2/Aux ==	== c	
	8 (485-) GND	51	0		8(45-) GND	\$1	0
	ventional	AC 2 Coo		Conv	entional 2H	eat and 1	Cool
	Y ==	—e	eld	DOI	Y ==	= 6	100
	Y2 ===	==RC	0		Y2	RC RH	0
	W/O.B W2/Aux	RH == c			W/O.B W2/Aux	= C	
	A(485+) R(485-)	Occ S1			A(485+) 8(485-)	Occ S1	00
	GND	31		ije	GND	- "	0
	ntional 2H	leat and 2	Cool	Conv	entional 11		
	Y =	= 6	04		Y ==	=6	101
	Y2 W/O.B	RC RH	00		Y2 W/O.B ===	RC RH	
	W2/Aux	=c			W2/Aux	=c	
	A(405+) B(405-) GND	Occ S1	00		A(485-) E(485-) GND	Occ S1	000
	Stage He	at Pump		Single	e Stage Hea with	t Pump Auxiliary	
			TON TO		Y ==	—e	
	Y == Y2 ==	=== G === RC		100	Y2 ===	==RC	
	W/O.B === W2/Aux	RH			W/O.B W2/Aux	RH — C	
	A(485+1	Occ		10	A(485+)	Occ	
	8 (485-) GNO	\$1	0		8 (485-) GND	\$1	0
	le Stage H	eat Pump		Doubl	e Stage He	at Pump Auxiliary	Heat
	THI.	R			PH .	R	
			16.1		PM .	c	
	-54 -1	CMM	10	9		CMPI	

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 dedicated staff, consistent updates and innovation made a name for itself in global markets. Our dedicated team is constantly striving to be more connected, forward-looking, and customer-centric. Our mission is to comprehend the upcoming trends of Thermostats in Air Conditioners and forces that will shape Air Conditioning Accessories in the future and move swiftly to prepare for what's to come. We are trying to expand our business all over the world to create a portfolio 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 objective is to provide higher quality products with a viable price dispatched 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 quality 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: Im info@truewaycontrols.com