



# TOUCH SERIES MODEL

TX986ME024-C

TX986ME024-CM

TX986MEO220-C

TX986MEO220-CM



## FEATURES

- ◆ Modern touch screen design suitable for offices, hotels and residential buildings.
- ◆ Applicable for 2-pipe fan coil and ECM fan cooling/heating, Modulating/ON-OFF
- ◆ 7 Days 6 Periods programmable from thermostat.
- ◆ Black LCD display
- ◆ Special colors casing upon request with RAL number can be provided based on production MOQ
- ◆ Both room temperature and Set-point are displayed.
- ◆ Manual & Automatic fan functions
- ◆ User setting can be kept during power off.
- ◆ Big LCD with English display
- ◆ Temperature unit C&F
- ◆ Regular color available in Black and White body
- ◆ EC motor fan control
- ◆ Fits in 70mmx70mm electrical junction box
- ◆ Real Time clock with infinite life battery backup
- ◆ During VAV option Fan symbols will be turnoff as default

## APPLICATIONS

- ▶ TX986 series is fully touch screen thermostat with many variants suitable for 2-pipe Fan coil/ECM fan motor/Bypass VAV application, available in basic standalone and modbus communication
- ▶ Fitted with built-in NTC 10K sensor. Several add-on functions like remote sensor, key card can be chosen as per site requirements.

## SPECIFICATION

- ◆ Power Supply : 24VAC OR 95-240VAC
  - Frequency: 50~60Hz
- ◆ Function: Cooling/Heating
- ◆ EC motor fan control 0-10VDC
- ◆ Wiring Max: 16AWG
- ◆ Sensing Element: 10K(@25°C) NTC
- ◆ Display Accuracy : 0.1°C, Set-point accuracy : 0.5°C/step
- ◆ Set-point range: 10-32°C(50-90°F) • Display range: 0-50°C
- ◆ Protection Class: IP 20 • Storage Temperature&Humidity : 20~30°C CRH45%~65% Working Temperature&Humidity: 0~50°C, less than RH90% (No condensation)
- ◆ Suitable Valve: 2-line/ 3-line valve.
- ◆ Installed on 70mm x 70mm box
- ◆ VAV -damper position can be adjust between 0-10V

### EC Motor Fan Voltage configuration Standard

- ◆ 0-10VDC fan setting range 0.0~10.0V(0.1V per step) for each speed

## ORDERING PART NUMBERS

PART NUMBERS	OPERATING VOLTAGES	APPLICATIONS	VALVE TYPE	MODBUS RS 485	UNIVERSAL INPUT (AI/DI)
TX986ME024-C	24VAC	ECM UNIT/ 2-PIPE/VAV	0-10VDC	X	✓
TX986ME024-CM	24VAC	ECM UNIT/ 2-PIPE/VAV	0-10VDC	✓	✓
TX986MEO220-C	85-240 VAC	ECM UNIT/ 2-PIPE/VAV	0-10VDC/ON-OFF	X	✓
TX986MEO220-CM	85-240 VAC	ECM UNIT/ 2-PIPE/VAV	0-10VDC/ON-OFF	✓	✓

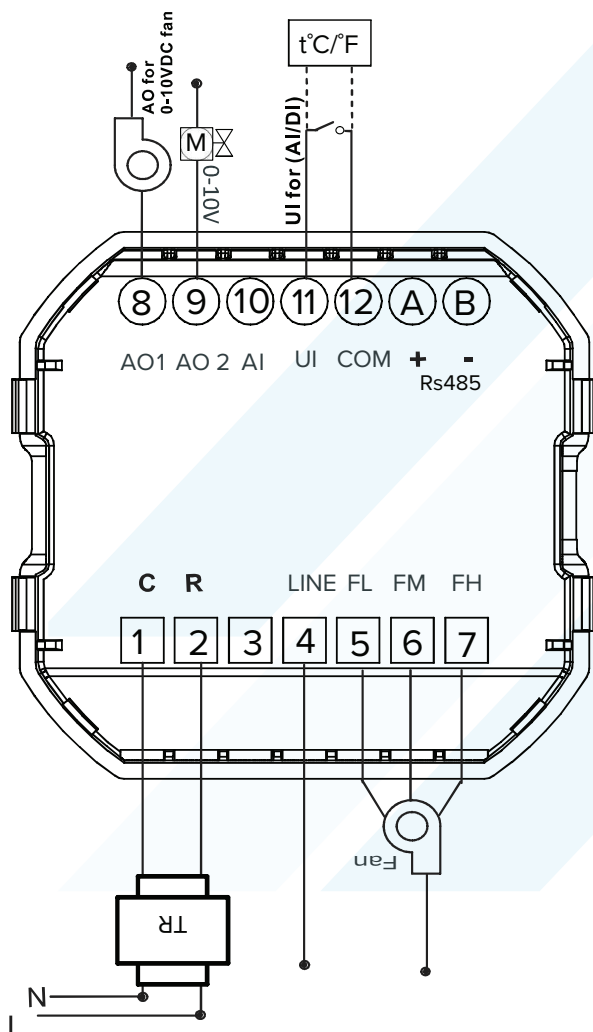
## ABBREVIATION

CASING/COVER COLOR	
BLACK	B
WHITE	W

BACKLIGHT COLOR	
Black backlight + Multicolor Icon& White text	BC

\*ordering example :TX986ME024-C-BBC  
VAV Sample Display

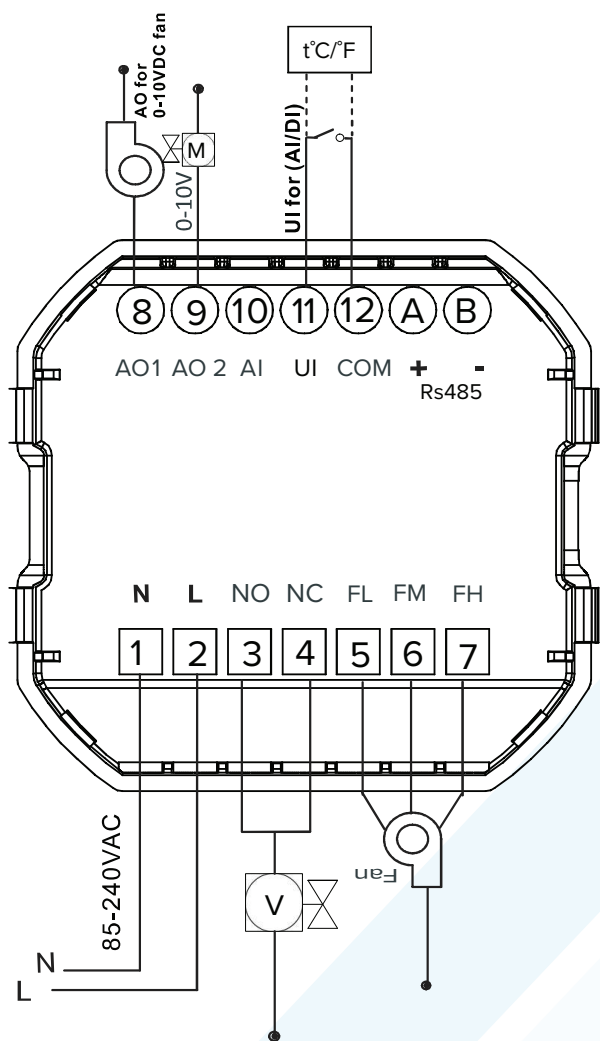
## WIRING DIAGRAM



TX986ME024-C / TX986ME024-CM



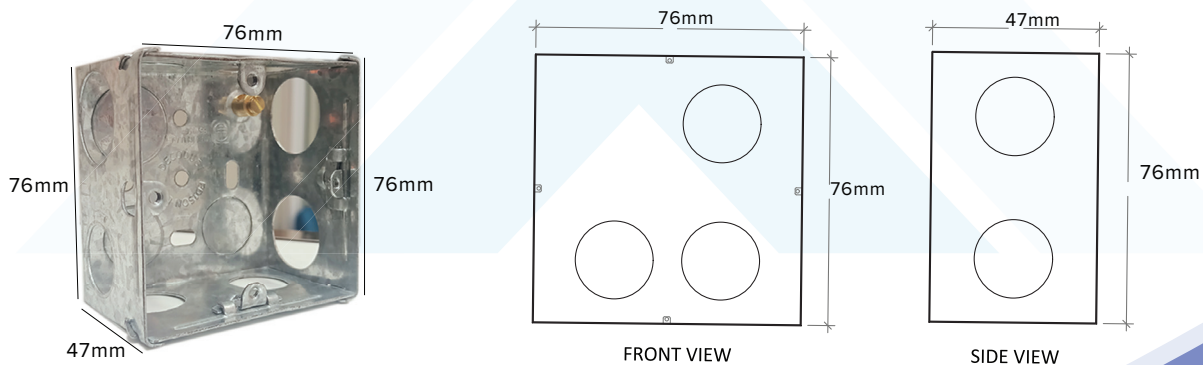
NO	TERMINALS	DESCRIPTION
1	C	24V NEUTRAL & COM FOR AO
2	R	24V ACTIVE
3		
4	LINE	LINE FOR FAN
5	FL	LOW SPEED FAN
6	FM	MEDIUM SPEED FAN
7	FH	HIGH SPEED FAN
8	Ao1	0-10VDC OUTPUT FOR ECM FAN
9	Ao2	0-10VDC OUTPUT FOR MODULATING ACTUATOR
10	AI	0-10VDC VALVE FEEDBACK
11	UI	AI (REMOTE SENSOR)& DI (KEY CARD)
12	COM	COM FOR UI
A	+	RS485 MODBUS
B	-	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	Ao1	0-10VDC OUTPUT FOR ECM FAN
9	Ao2	0-10VDC OUTPUT FOR MODULATING ACTUATOR
10	AI	0-10VDC VALVE FEEDBACK
11	UI	AI (REMOTE SENSOR)& DI (KEY CARD)
12	COM	COM FOR UI & AO
A	+	RS485 MODBUS
B	-	RS485 MODBUS

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## JUNCTION BOX SPECIFICATION



\*The catalog is subjected to changed as per Trueway products upgrade without notice.

Touch makes you Comfortable

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