TC041C11W04

4.1 Inches, 720*RGB*720, 16.7M Colors, IPS screen,

Capacitive Touch WIFI-Thermostat





Display

Item	Parameter	Description
Color	16.7M(16777216)colors	24 bit color 8R8G8B
Panel Type	IPS	IPS TFT LCM ,wide viewing angle
Viewing Angle	85/85/85/85 (L/R/U/D)	Best View: symmetrical
Active Area(A.A)	73.98mm (W)*73.98mm (H)	720*720
View Area(V.A)	74.8mm (W) *74.8mm (H)	720*720
Resolution	720*720	Support 0°/90°/180°/270°rotated display
Backlight	LED	≥10000H(Continuous working with maximum brightness, time of brightness halves)
Brightness	250nit	100 levels adjustment(It's not recommend to set brightness to 1%~30% of the maximum,which may lead a flicker)

Note: You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed page display for a long time.

Voltage & Current

Item	Condition	Min	Тур.	Max	Unit
Power Voltage	oltage -		220	264	VAC
Load Current	Resistive load		-	2	Α
Load Guirent	Inductive load	1-11	-	1	Α

Reliability Test

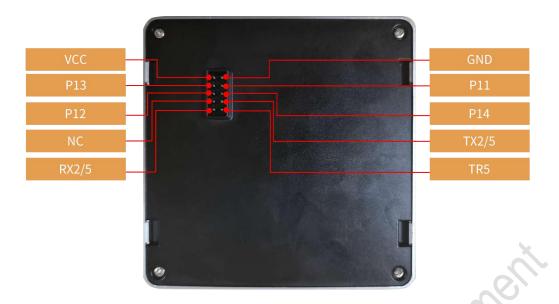
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Item	Item Condition		Тур.	Max	Unit
Working Temperature	60%RH at 220VAC Voltage	0	25	50	$^{\circ}$
Storage Temperature	-	-30	25	70	$^{\circ}$
Working Humidity	25 ℃	10%	60%	90%	RH
Protective Paint	~(-),	-	None	-	-

Interface



Item	Parameter	Corresponding Internal Pin
В	IO	485_TX
Α	10	485_RX
0	0	P1.3 electric relay1 valve(IO3)
С	O	F1.3 electric relay i valve(103)
L	0	P1.1 electric relay 2 low(IO1)
М	0	P1.4 electric relay 3 middle(IO4)
Н	0	P1.2 electric relay 4 high(IO2)
N	Р	Zero line and live line
L	F	Zero inte and nive inte
NC	- 10	Undefined



Item	Parameter	Description	
1	VCC	Power input, 5V.	
2	GND	GND	
3	P13	P1.3 electric relay1 valve(IO3)	
4	P11	P1.1 electric relay 2 low(IO1)	
5	P12	P1.2 electric relay 4 high(IO2)	
6	P14	P1.4 electric relay 3 middle(IO4)	
7	NC	Undefined	
8	TX2/5	UART2 and UART5 transmit data. (TX2 and TX5, logic AND)	
9	RX2/5	UART2 and UART5 receive data. (RX2 and RX5 shorted)	
10	TR5	Output for RS485 transmit/receive switching (TR5 and UART 2 self-transmit/receive control pin, logic OR)	

• Interface Detail Value

Item	Condition	Min	Тур.	Max	Unit
Baud Rate	TA Standard	7841	-	115200	bps
Baud Rate	DGUS II Standard	239	-	115200	bps
Output Voltage	Output 1, lout = 1mA	3.0	3.2	-	V
(TXD)	Output 0, lout = -1mA	-	0.1	0.2	V
Input Voltage	Input 1, lin = 1mA	2.0	3.3	5.0	V
(RXD)	Input 0, lin = -1mA	-0.7	0.0	1.3	V
Interface	RS485				
Socket	5.08mm Spacing connection terminal				
USB	None				
SD Card Slot	Yes (SDHC/FAT32 file format)				

Memory

ltem	Тур.	Features	Тур.	Unit	Description
FLASH		Space of Font	4-12	Mbytes	A single font of 256Kbytes,store font, icon libraries,and other binary files
(TA/DGUS II)	16Mbytes	Picture Storage (.ICL file)	12-4	Mbytes	JPEG format(Picture quantity relate to JPEG size,size of a single JPEG image file should not exceed 248 Kbytes)
RAM (DGUS II)	128Kbytes	Variable Storage Space	1	/	Data is not saved when power down
Nor Flash (DGUS II)	512Kbytes	User database	/	1	Data is saved when power down

UI&Peripheral

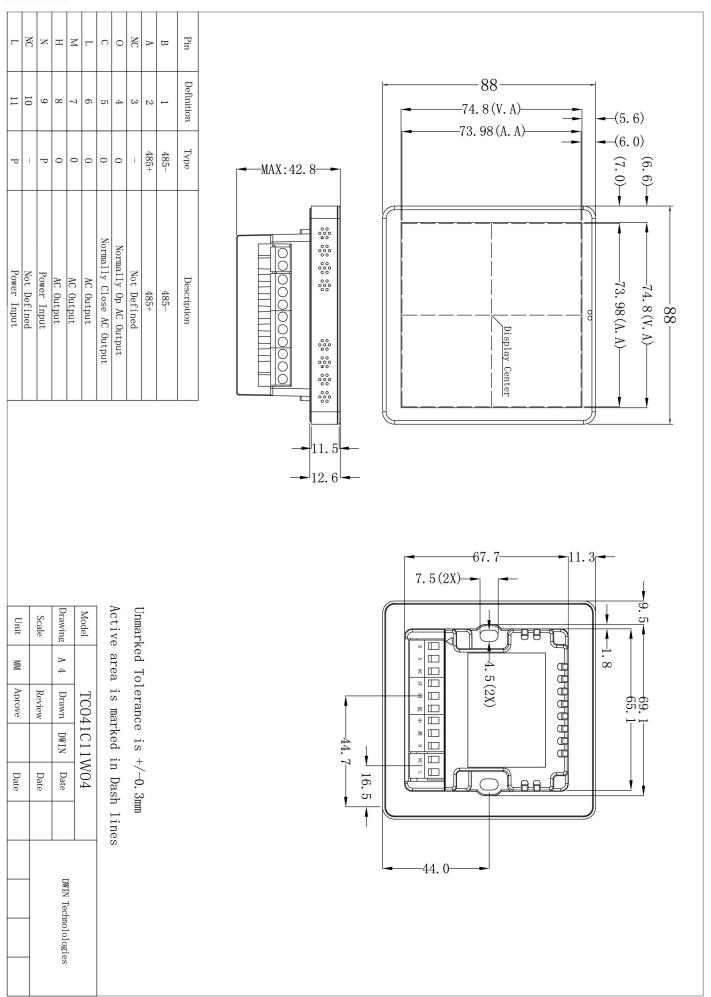
UI&Peripherals	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripherals	Built-in Speaker,Built-in Temperature sensor,Built-in WIFI

Packing Capacity & Dimension

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Dimension						
Dimension	88.0 (W) * 88.0 (H) * 42.8 (T)mm					
Net Weight	-	2				
Packing Capacity						
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)		
Model Carton1:	Size 220mm(L)*160mm(W)*47mm (H)	Layer -	Quantity/Layer -	Quantity(Pcs)		
		Layer - 2	Quantity/Layer - 1	Quantity(Pcs) - 2		
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	Quantity/Layer - 1	-		
Carton1:	220mm(L)*160mm(W)*47mm (H) 250mm(L)*200mm(W)*80mm (H)	- 2	Quantity/Layer - 1 1	- 2		

Disclaimer:

- 1, The product design is subject to alternation and improvement without prior notice.
- 2, There are multiple parallel raw materials coexisting to guarantee the stable supply. If customers have particular raw material preferences or requirements, please contact the sales personnel.



Record of Revision

Version	Revise Date	Content	Editor
00	2023-01-12	First Edition	YML
01	2023-07-20	Add Pinout Definition	YML
02	2023-10-07	Add Load Current	YML

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!

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