

TC041C11U04

4.1 Inches, 720*RGB*720, 16.7M Colors, IPS screen,
Capacitive Touch , 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	Typ.	Max	Unit
Power Voltage	-	85	220	264	VAC
Load Current	Resistive load	-	-	2	A
	Inductive load	-	-	1	A

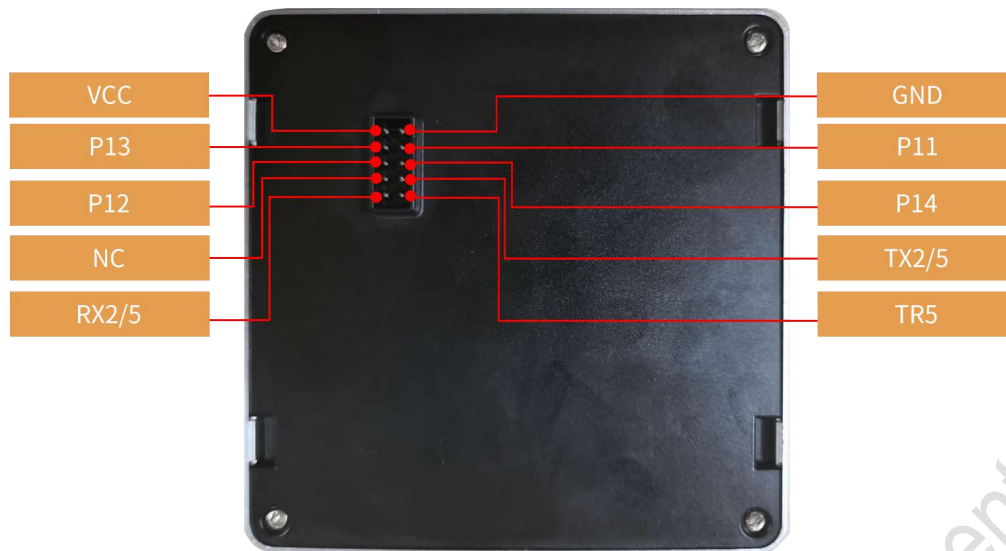
● Reliability Test

Item	Condition	Min	Typ.	Max	Unit
Working Temperature	60%RH at 220VAC Voltage	0	25	50	℃
Storage Temperature	-	-30	25	70	℃
Working Humidity	25℃	10%	60%	90%	RH
Protective Paint	-	-	None	-	-

- Interface



Item	Parameter	Corresponding Internal Pin
B	IO	485_TX
A		485_RX
O	O	P1.3 electric relay1 valve(IO3)
C		
L		
M	O	P1.4 electric relay 3 middle(IO4)
H	O	P1.2 electric relay 4 high(IO2)
N	P	Zero line and live line
L		
NC	—	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	Typ.	Max	Unit
Baud Rate	TA Standard	7841	-	115200	bps
	DGUS II Standard	239	-	115200	bps
Output Voltage (TXD)	Output 1, Iout = 1mA	3.0	3.2	-	V
	Output 0, Iout = -1mA	-	0.1	0.2	V
Input Voltage (RXD)	Input 1, Iin = 1mA	2.0	3.3	5.0	V
	Input 0, Iin = -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

Item	Typ.	Features	Typ.	Unit	Description
FLASH (TA/DGUS II)	16Mbytes	Space of Font	4-12	Mbytes	A single font of 256Kbytes, store font, icon libraries, and other binary files
		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	/	/	Data is not saved when power down
Nor Flash (DGUS II)	512Kbytes	User database	/	/	Data is saved when power down

● UI & Peripheral

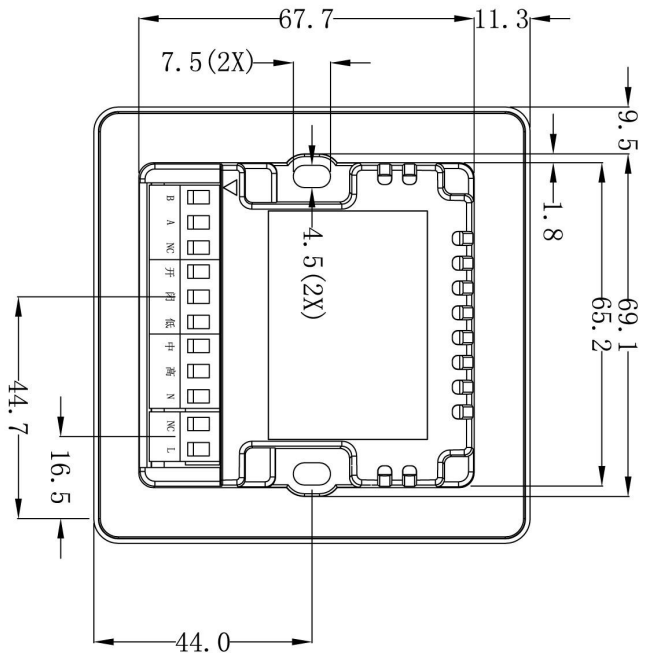
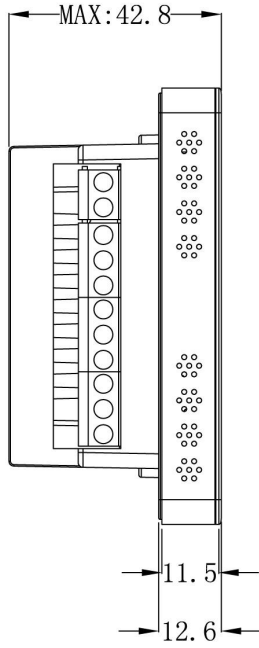
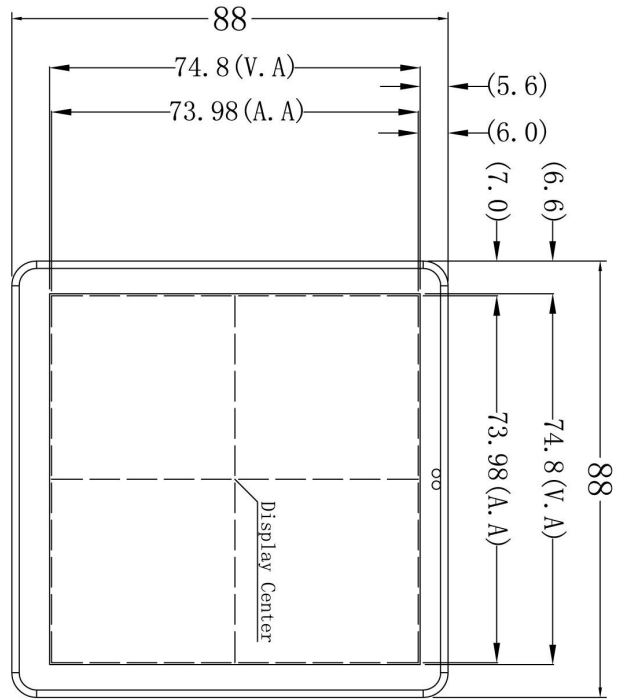
UI & Peripherals	
UI Version	TA / DGUS II (DGUS II pre-installed)
Peripherals	Built-in Speaker, Built-in Temperature sensor

● Packing Capacity & Dimension

Dimension				
Dimension	88.0 (W) * 88.0 (H) * 42.8 (T)mm			
Net Weight	-			
Packing Capacity				
Model	Size	Layer	Quantity/Layer	Quantity(Pcs)
Carton1:	220mm(L)*160mm(W)*47mm (H)	-	-	-
Carton2:	250mm(L)*200mm(W)*80mm (H)	2	1	2
Carton3:	320mm(L)*270mm(W)*80mm (H)	4	1	4
Carton4:	450mm(L)*350mm(W)*300mm(H)	-	-	-
Carton5:	600mm(L)*450mm(W)*300mm(H)	1	40	40

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.



Pin	Definition	Type	Description
B	1	485-	485-
A	2	485+	485+
NC	3	-	Not Defined
O	4	0	Normally Op AC Output
C	5	0	Normally Close AC Output
L	6	0	AC Output
M	7	0	AC Output
H	8	0	AC Output
N	9	P	Power Input
NC	10	-	Not Defined
L	11	P	Power Input

Unmarked Tolerance is +/-0.3mm

Active area is marked in Dash Lines

Model	TC041C11U04			DWIN Technologies		
Drawing	A 4	Drawn	DWIN	Date		
Scale		Review		Date		
Unit	MM	Approve		Date		

Record of Revision

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

Please contact us if you have any questions about the use of this document or our products, or if you would like to know the latest information about our products:

Customer service Tel: +86-400-018-9008

Customer service E-mail: dwinhmi@dwin.com.cn

Website: www.dwin-global.com

DWIN Developer Forum: <https://forums.dwin-global.com/index.php/forums>

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

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