

TPD-280-M1/
TPD-283-M1/
TPD-283U-M1

2.8" Touch HMI Device with 1 x RS-485



TPD-280-M2/
TPD-283-M2/
TPD-283U-M2

2.8" Touch HMI Device with Ethernet (PoE)



TPD-280-M3/
TPD-283-M3/
TPD-283U-M3

2.8" Touch HMI Device with 1 x RS-485, Ethernet (PoE)

Features

- High-resolution color touch screen
- PoE (Power over Ethernet)
- RTC (Real Time Clock)
- Free HMIWorks development tool
- Supports C programming language and Ladder Designer
- Supports the custom communication protocol (C language)
- Modbus TCP/RTU protocol
- Operating temperature: -20 ~ 70 °C

Introduction

TPD 2.8 inch Mx series is a series of touch HMI and designed for building and home automation. TPD 2.8 inch Mx series is equipped with high resolution TFT color touch screen and fits in with regular electrical wall-mount outlet. Besides, it is seamlessly integrated with rich I/O modules and presents beautiful, flexible and user-defined picture frame. In short, it is the best choice to upgrade the mechanical switch to intelligent control pads.

For PLC users, HMIWorks provides Ladder Designer, and for IT users, C language environment is provided. Especially, it only takes no more than 30 minutes to learn how to create an application program of TPD-series devices when using Ladder Designer. Moreover, we provide redundant solutions in our PoE version, TPD-283/283U-Mx of TPD-series HMI devices. With all the features provided, TPD-series touch HMI Devices must be the most cost effective HMI Device ever been in the market.

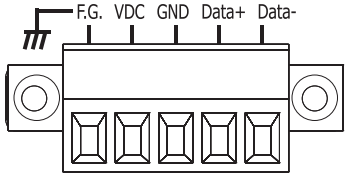
Specifications

Models	TPD-280-Mx	TPD-283-Mx	TPD-283U-Mx
Main Unit			
CPU	32-bit RISC CPU		
Display			
Type	LCD 2.8” TFT (Resolution 240 x 320, 65535 colors), defective pixels <= 3		
Backlight Life	20,000 hours		
Brightness	160 cd/m2		
Touch Panel	Resistive Touch		
COM Ports			
Ports	1 x RS-485 (including Self-Tuner)		
HMI			
Buzzer	Yes		
Rotary Switch	Yes		
Reset Button	Yes		
Ethernet			
Ports	-	RJ-45 x 1, 10/100 Base-TX	
Power			
Consumption	1.5 W		
Powered from PoE	-	IEEE 802.3af, Class1 (48 V)	
Powered from Terminal Block	+12 ~ 48 VDC	-	+12 ~ 48 VDC
Mechanical			
Dimensions (mm)	127 mm x 92 mm x 31 mm	127 mm x 92 mm x 30 mm	127 mm x 92 mm x 31 mm
Installation	Wall Mounting		
Ingress Protection Rating	Front Panel: IP40		
Environmental			
Operating Temperature	-20 ~ +70°C		
Storage Temperature	-30 ~ +80 °C		
Humidity	10 ~ 90% RH, Non-condensing		

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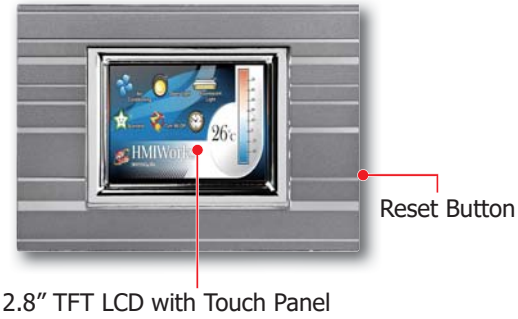
Pin Assignments

TPD-280/283U-Mx Series

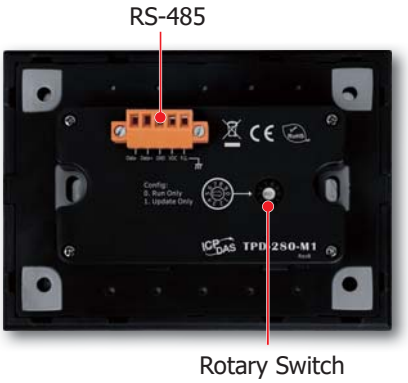


Appearance

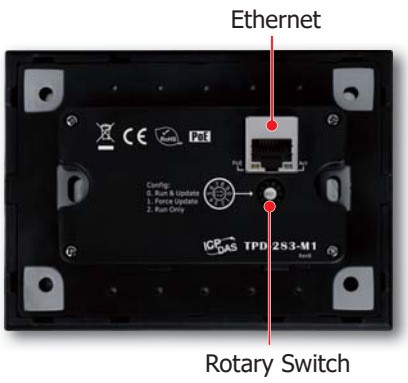
TPD-280/283/283U-Mx Series Front View



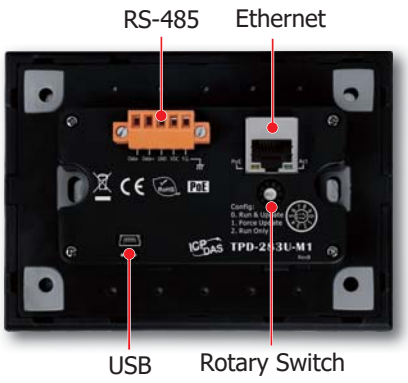
TPD-280-Mx Rear View



TPD-283-Mx Rear View

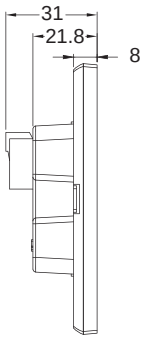


TPD-283U-Mx Rear View

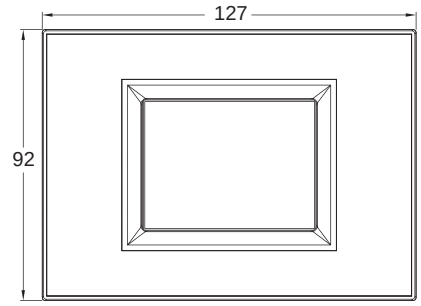


Dimensions (Units: mm)

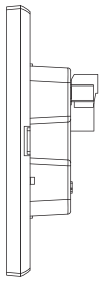
TPD-280/283/283U-Mx Series



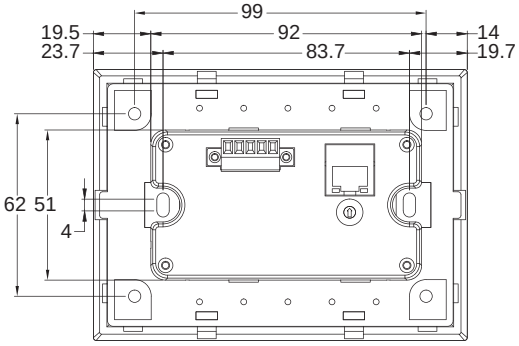
Left View



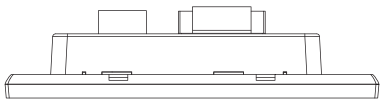
Front View



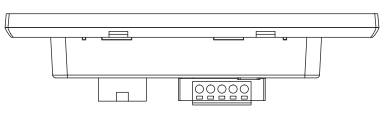
Right View



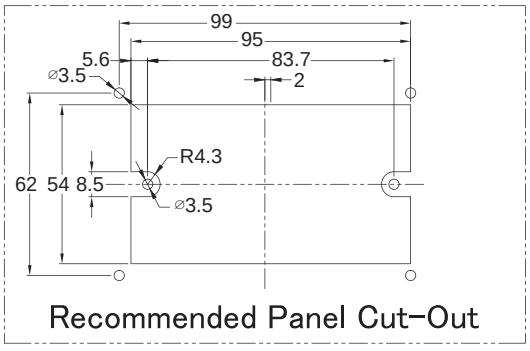
Rear View



Top View



Bottom View



Wall Mounting

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Ordering Information

TPD-280-M1 CR	2.8" Touch HMI Device with 1 x RS-485 (White Cover) (RoHS)
TPD-280-M2 CR	2.8" Touch HMI Device with 1 x RS-485 (Gray Cover) (RoHS)
TPD-280-M3 CR	2.8" Touch HMI Device with 1 x RS-485 (Black Cover) (RoHS)
TPD-283-M1 CR	2.8" Touch HMI Device with Ethernet (PoE) (White Cover) (RoHS)
TPD-283-M2 CR	2.8" Touch HMI Device with Ethernet (PoE) (Gray Cover) (RoHS)
TPD-283-M3 CR	2.8" Touch HMI Device with Ethernet (PoE) (Black Cover) (RoHS)
TPD-283U-M1 CR	2.8" Touch HMI Device with 1 x RS-485, RTC, Ethernet (PoE) and USB Download Port (White Cover) (RoHS)
TPD-283U-M2 CR	2.8" Touch HMI Device with 1 x RS-485, RTC, Ethernet (PoE) and USB Download Port (Gray Cover) (RoHS)
TPD-283U-M3 CR	2.8" Touch HMI Device with 1 x RS-485, RTC, Ethernet (PoE) and USB Download Port (Black Cover) (RoHS)

Accessories

 OB120 CR	Outlet Box for TPD 2.8 inch Series and TPD-430-H/ TPD-433-H Devices
 NS-208PSE CR	Unmanaged Industrial PoE (Power over Ethernet) Ethernet Switch (RoHS)
 MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

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