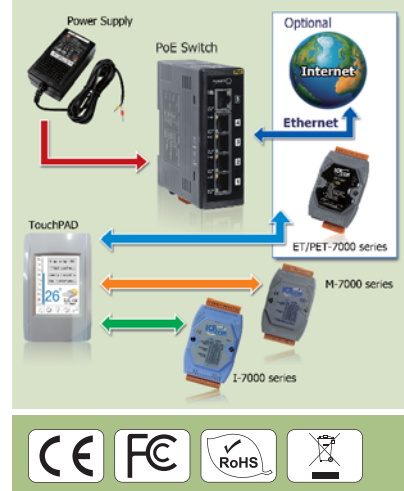


Features

- Excellent C/P ratio (cost/performance)
- High-resolution color touch screen
- PoE (Power over Ethernet)
- RS-485 (including Self-Tuner)
- RTC (Real Time Clock)
- GUI design
- Free HMIWorks development tool
- Supports C programming language and Ladder Designer
- Supports the custom communication protocol (C language)
- Modbus TCP/RTU protocol
- ESD Protection: 4 kV
- Operating temperature: -20 ~ 70°C

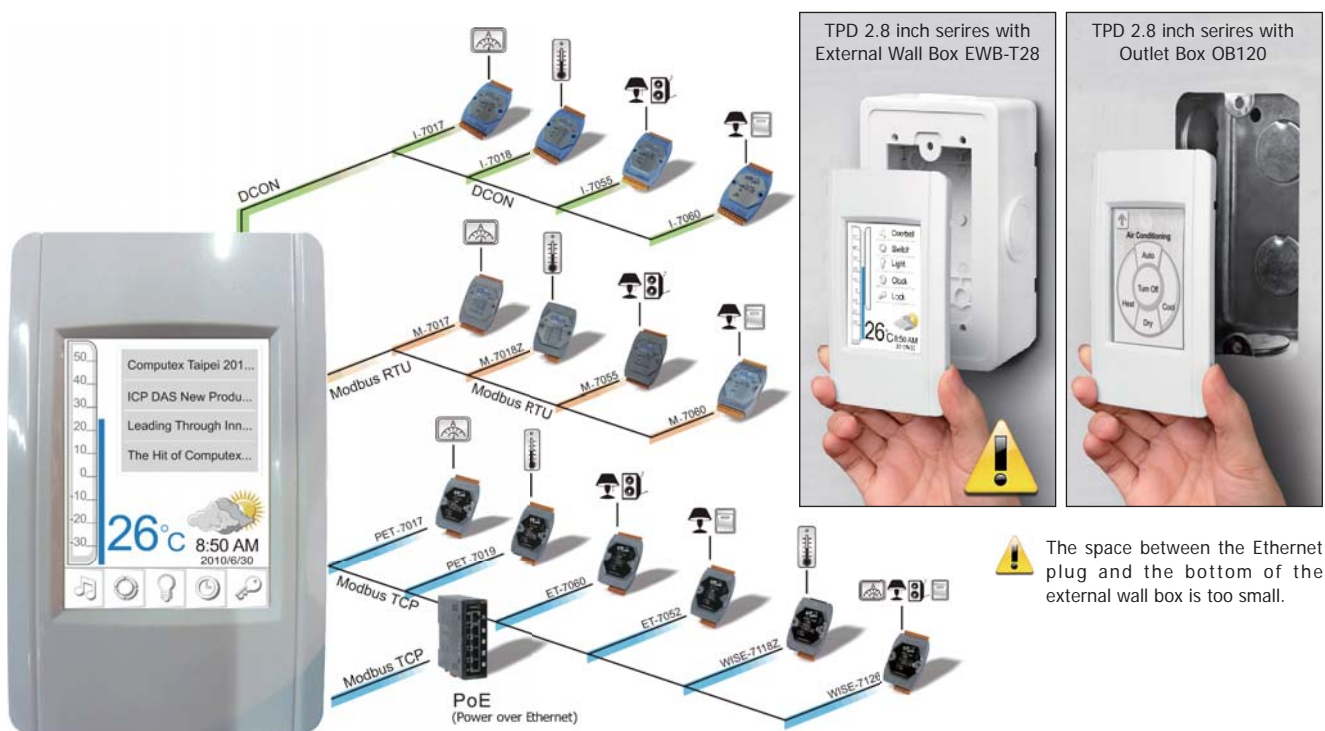


Introduction

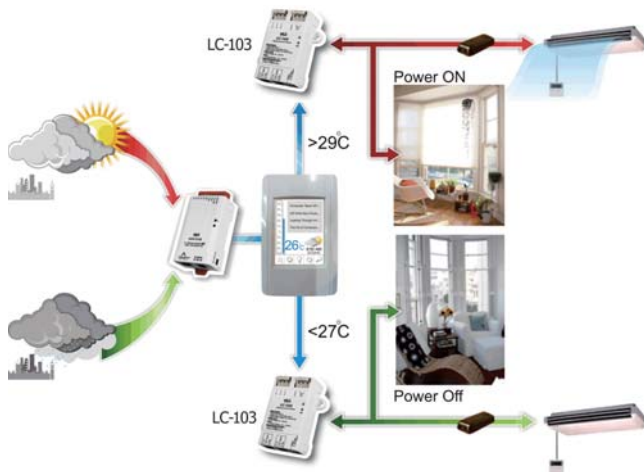
TPD 2.8 inch series is a series of tiny touch HMI and designed for building and home automation. TPD 2.8 inch series is equipped with high resolution TFT color touch screen and fits in with regular electrical wall-mount outlet. Besides, it is seamlessly integrated with rich I/O modules and presents beautiful, 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 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.

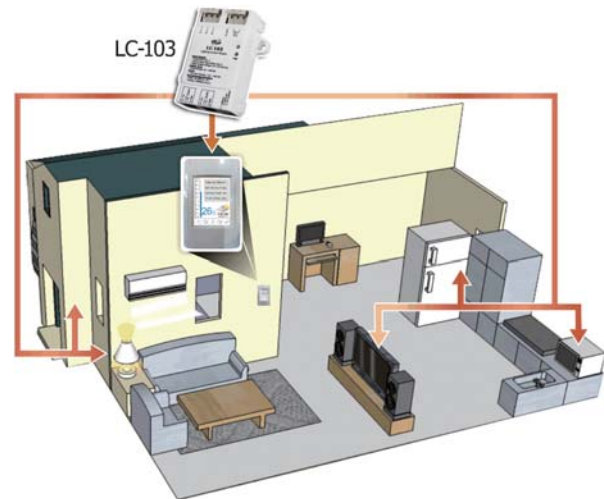
Applications



Temperature Control Example



Intelligent Building Example

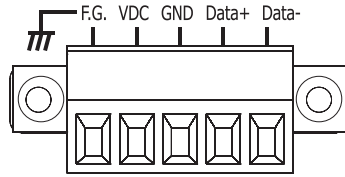


Specifications

Models	TPD-280	TPD-280U	TPD-283	TPD-283U
CPU Module				
CPU	32-bit RISC CPU			
Memory Expansion	-	16 MB SDRAM / 8 MB Flash	-	16 MB SDRAM / 8 MB Flash
Real Time Clock (RTC)	-	Yes	-	Yes
Buzzer	Yes			
Rotary Switch (0~9)	Yes			
Communication Interface				
Ethernet	-		RJ-45 x 1, 10/100 Base-TX	
Serial Port	RS-485 (including Self-Tuner)		-	RS-485 (including Self-Tuner)
USB 1.1 Client	-	Firmware updates only	-	Firmware updates only
MMI (Main Machine Interface)				
LCD	2.8" TFT (Resolution 240 x 320 x 16), defective pixels <= 3			
Backlight Life	20,000 hours			
Brightness	160 cd/m ²			
Touch Panel	Yes			
Reset Button	Yes			
Electrical				
Powered from Terminal Block	+10 ~ 30 VDC		-	+10 ~ 30 VDC
Powered from PoE	-		IEEE 802.3af, Class1 (48 V)	IEEE 802.3af, Class1 (48 V)
Power Consumption	1.2 W			
Mechanical				
Dimensions (W x L x H)	76 mm x 119 mm x 31 mm			
Installation	Wall Mount			
Ingress Protection	Front Panel: IP40			
Environmental				
Operating Temperature	-20 ~ +70°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	10 ~ 90% RH, non-condensing			

Pin Assignments

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

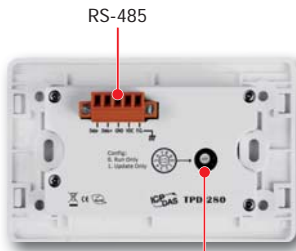


Appearance

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

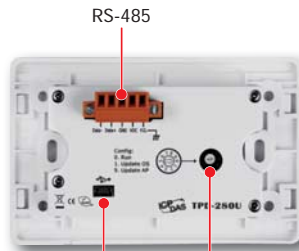


TPD-280 Rear View



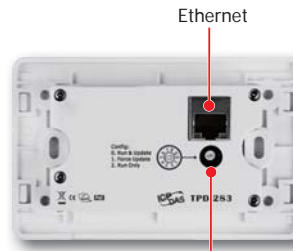
Rotary Switch

TPD-280U Rear View



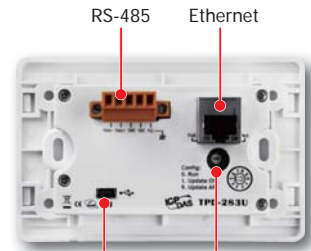
USB Rotary Switch

TPD-283 Rear View



Rotary Switch

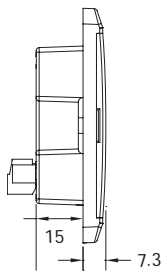
TPD-283U Rear View



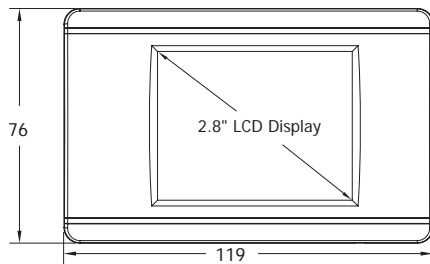
USB Rotary Switch

Dimensions (Units: mm)

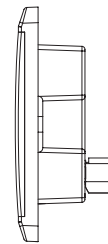
TPD-280/TPD-280U



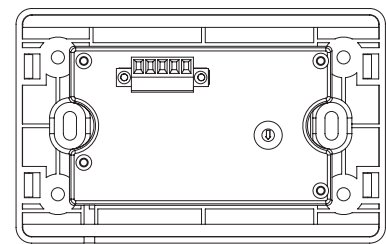
Left View



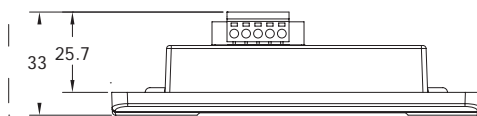
Front View



Right View



Rear View

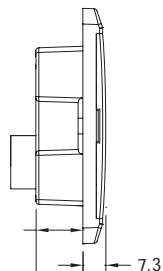


Top View

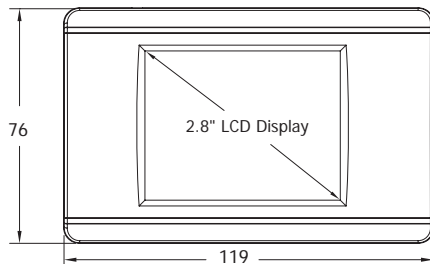


Bottom View

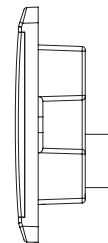
TPD-283/TPD-283U



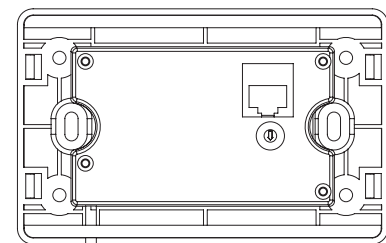
Left View



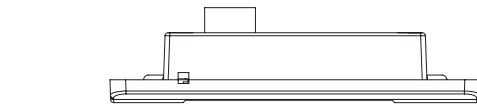
Front View



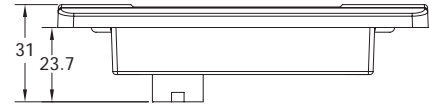
Right View



Rear View



Top View










Bottom View

Ordering Information

TPD-280 CR	2.8" Touch HMI device with RS-485 (RoHS)
TPD-280U CR	2.8" Touch HMI device with RS-485, USB download, RTC (RoHS)
TPD-283 CR	2.8" Touch HMI device with Ethernet, PoE (RoHS)
TPD-283U CR	2.8" Touch HMI device with RS-485, USB download, RTC, Ethernet, PoE (RoHS)

Accessories

 CA-USB10	USB to 5P Mini-USB, 28AWG, 1.5 m
 1C016	2.4 mm Screw driver
 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)

 DIN-KA52F CR	24 VDC/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
 EWB-T28	External Wall Box for TPD 2.8 inch series
 OB120	Outlet Box for TPD 2.8 inch series and TPD-430/ TPD-433 Devices