TPD Series





TPD-280

TPD-280U



TPD-283

TPD-283U

Introduction.

TPD-280/TPD-280U/TPD-283/TPD-283U, is a series of tiny touch HMI and designed for building and home automation. TPD-280/TPD-280U/TPD-283/TPD-283U 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.

■ 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 the popular C programming language
- Supports Ladder Designer
- Modbus TCP protocol
- ESD Protection: 4 kV
- Operating temperature: -20 ~ 70°C











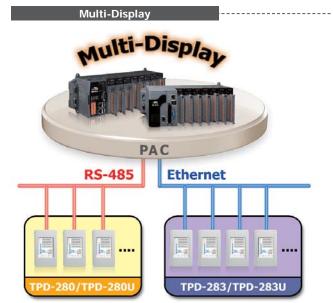
Applications .



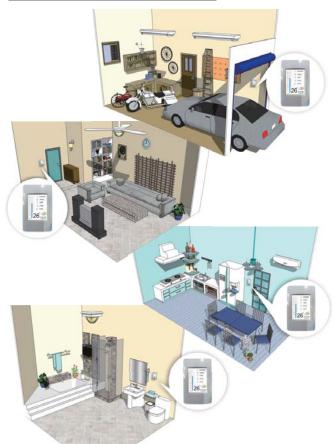
PoE

over Ethernet)

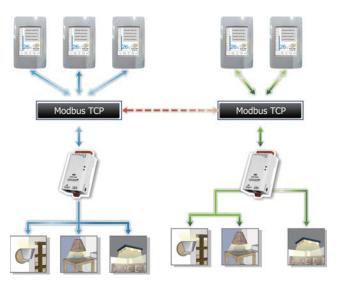
Applications -



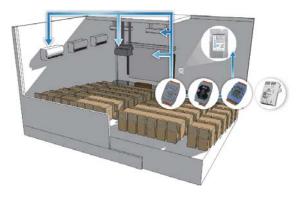
TouchPAD Anywhere



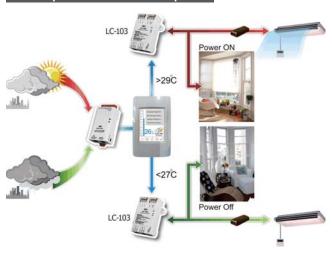
Single-way, Two-way, Multi-way Switches Example



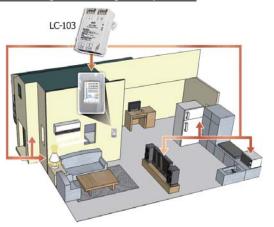
Classroom Automation Example



Temperature Control Example



Intelligent Building Example



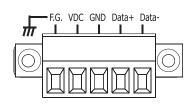


Specifications

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 (includ	ing 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/m2					
Touch Panel	Yes					
Reset Button	Yes					
Electrical						
Power Input Range	+10 ~ 30 VDC		Power over Ethernet (PoE)	+10 ~ 30 VDC or PoE (Power over Ethernet)		
Power Consumption	1.2 W (50 mA @ 24 VDC)		IEEE 802.3af, Class 1	1.2 W (50 mA @ 24 VDC) or IEEE 802.3af, Class 1		
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 .

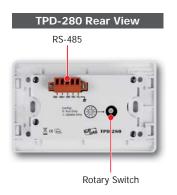
TPD-280/TPD-280U/TPD-283U ------

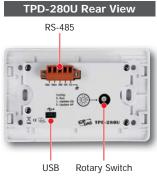


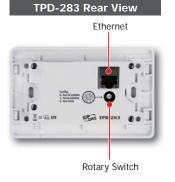
Appearance _

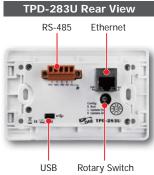
TPD-280/TPD-280U/TPD-283/TPD-283U Front View

2.8" TFT LCD with Touch Panel

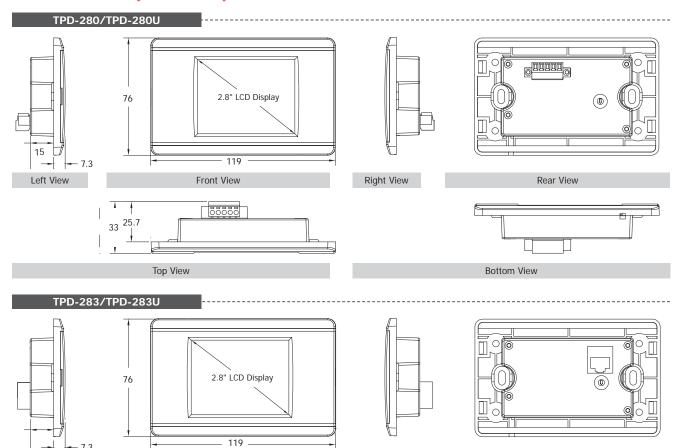








■ Dimensions (Units: mm) _____





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

Right View

Accessories _____

Left View

7	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)
10000 10000	MDR-60-24 CR	24 VDC/2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

Front View

Top View

DIN-KA52F CR	24 VDC/1.04 A, 25 W Power Supply with DIN-Rail Mounting (RoHS)
EWB-T28	External Wall Box for TPD-280/TPD-280U/ TPD-283/TPD-283U Devices
OB120	Outlet Box for TPD-280/TPD-280U/ TPD-283/TPD-283U/TPD-430/TPD-433 Devices
LC-103	Lighting Control Module with RS-485

Rear View

Bottom View