TPD Series





TPD-280

TPD-280U



TPD-283/TPD-283-BK

TPD-283U

Introduction.

TPD-280/TPD-283/TPD-283-BK/TPD-283U, is a series of tiny touch HMI and designed for building and home automation. TPD-280/TPD-280U/TPD-283/TPD-283-BK/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 TPDseries devices when using Ladder Designer. Moreover, we provide redundant solutions in our PoE version, TPD-283/ TPD-283-BK, 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



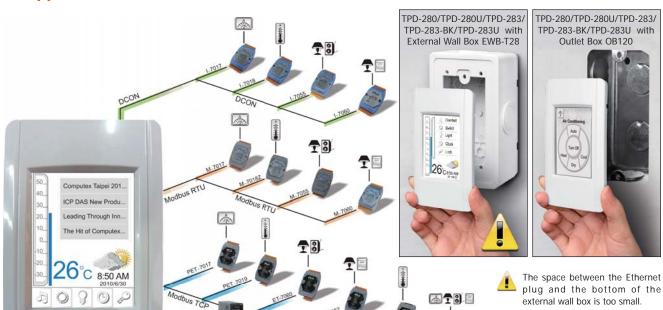








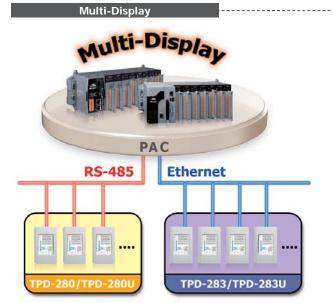
Applications -



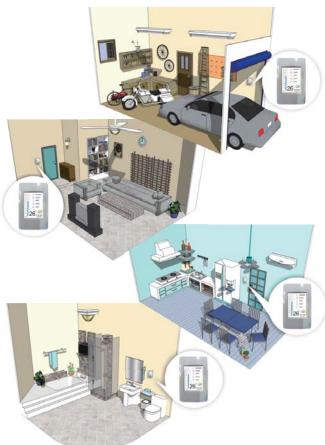
PoE

over Ethernet)

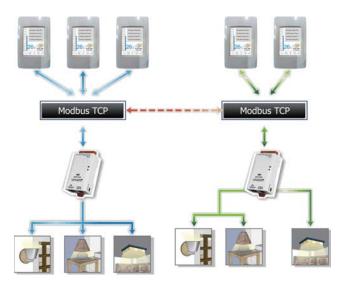
Applications -



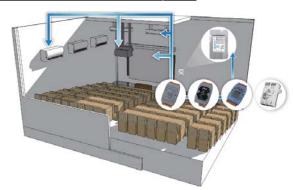
TouchPAD Anywhere



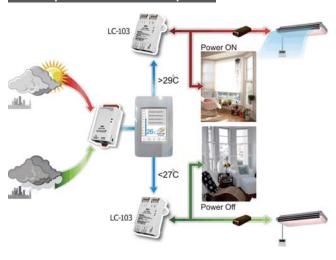
Single-way, Two-way, Multi-way Switches Example



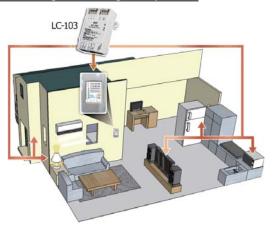
Classroom Automation Example



Temperature Control Example



Intelligent Building Example



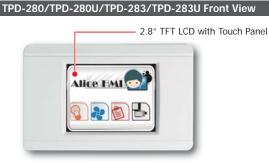
Specifications.

Models	TPD-280	TPD-280U	TPD-283/TPD-283-BK	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/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				

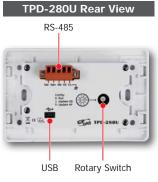
Pin Assignments .

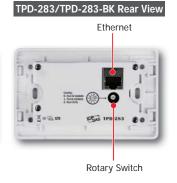
Appearance _

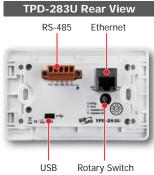
TPD-280/TPD-280U/TPD-283U ------.G. VDC GND Data+ Data-



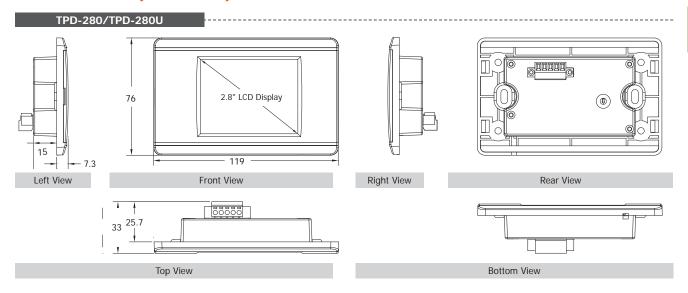




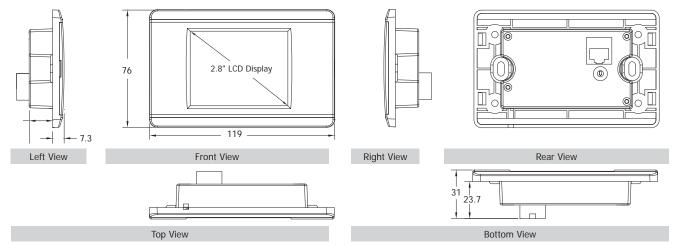




■ Dimensions (Units: mm) _



TPD-283/TPD-283-BK/TPD-283U



Ordering Information _

Т	PD-280 CR	2.8" Touch HMI device with RS-485 (RoHS)	
Т	PD-280U CR	2.8" Touch HMI device with RS-485, USB, RTC (RoHS)	
Т	PD-283 CR	2.8" Touch HMI device with Ethernet (RoHS)	
Т	PD-283-BK CR	2.8" Touch HMI device with Ethernet (RoHS)	
Т	PD-283U CR	2.8 Touch HMI device with RS-485, USB, RTC, Ethernet (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-280/TPD-280U/ TPD-283/TPD-283U Devices
OB120	Outlet Box for TPD-280/TPD-280U/ TPD-283/TPD-283-BK/TPD-283U/ TPD-430/TPD-433 Devices
EWB-T28-BK	External Wall Box for TPD-283-BK Devices