

Introduction .

TPD 2.8 inch serires is a series of tiny touch HMI and designed for building and home automation. TPD 2.8 inch serires 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-H 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
- Suppots 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



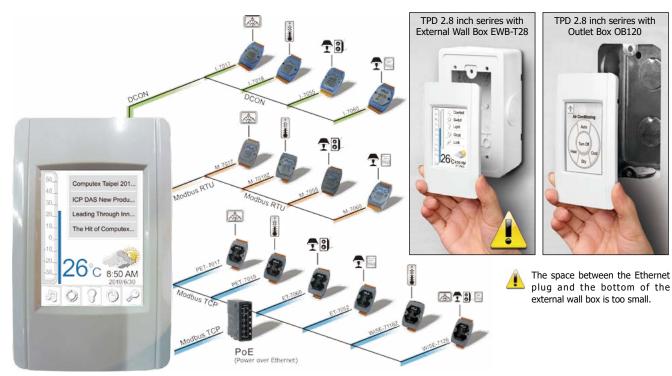


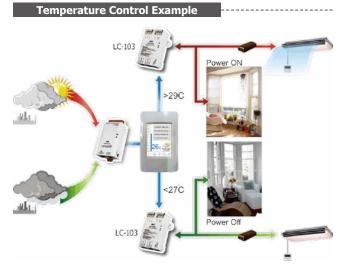


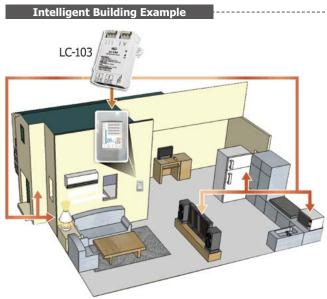




Applications.







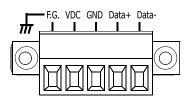
■ Specifications _____

Models	TPD-280-H	TPD-280U-H	TPD-283-H	TPD-283U-H		
CPU Module						
CPU	32-bit RISC CPU					
Memory Expansion	-	16 MB SDRAM / 16 MB Flash	-	16 MB SDRAM / 16 MB Flash		
Real Time Clock (RTC)	-	Yes	-	Yes		
Buzzer	Yes					
Rotary Switch (0~9)	Yes					
Communication Interface	Communication Interface					
Serial Port	RS-485 (including Self-Tuner)		-	RS-485 (including Self-Tuner)		
Ethernet	-		RJ-45 x 1, 10/100 Base-TX			
USB 1.1 Clinet	-	Firmware update only	-	Firmware update only		
MMI (Main Machine Interface))					
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					
Reset Button	Yes					
Electrical						
Powered from Terminal Block	+12 ~ 48 VDC		-	+12 ~ 48 VDC		
Powered from PoE	- IEEE 802.3af, Class1 (48 V)		Class1 (48 V)			
Power Consumption	1.5 W					
Mechanical						
Dimensions (W x L x H)	119 mm x 76 mm x 33 mm	119 mm x 76 mm x 33 mm	119 mm x 76 mm x 32 mm	119 mm x 76 mm x 33 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					

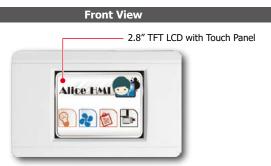


■ Pin Assignments _

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



Appearance .



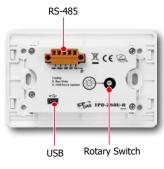
TPD-280-H Rear View

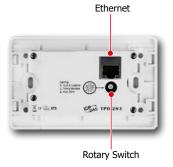
TPD-280U-H Rear View

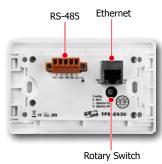
TPD-283-H Rear View

TPD-283U-H Rear View



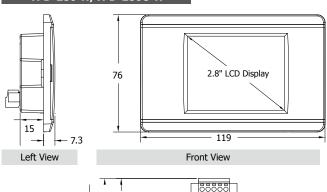


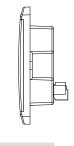


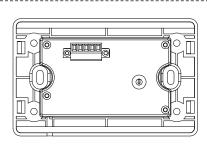


■ Dimensions (Units: mm)

TPD-280-H/TPD-280U-H ---

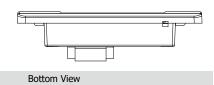






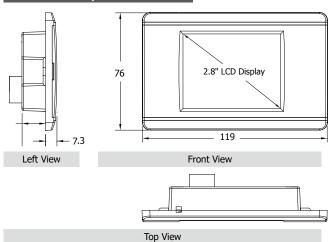
Right View

View Rear View



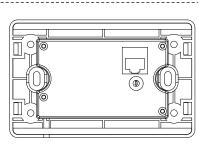
TPD-283-H/TPD-283U-H

33 25.7



Top View





Right View

Rear View

31 23.7

Bottom View

Ordering Information _______

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

Accessories _____

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
EWB-T28-BK	External Wall Box for TPD 2.8 inch series (Black)
OB120	Outlet Box for TPD 2.8 inch series and TPD-430/ TPD-433 Devices

Website: http://www.icpdas.com E-mail: sales@icpdas.com