

# PoE (Power over Ethernet) Modbus TCP, Modbus RTU and DCON protocol Excellent C/P ratio (cost/performance) High-resolution color touch screen RS-485 (including Self-Tuner) RTC (Real Time Clock) Speaker or buzzer Free HMIWorks development tool Supports the popular C programming language and Ladder Designer Supports the custom communication protocol (C language) GUI design

ESD Protection: 4 kV

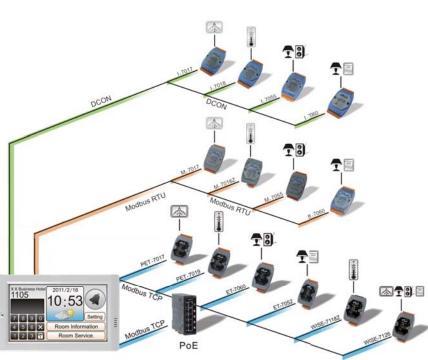
■ Operating temperature: -20 ~ 50°C

## Introduction.

TPD-430/TPD-433-EU, TouchPAD, is a series of tiny touch HMI and designed for building and home automation. TPD-430/TPD-430-EU/TPD-433/TPD-433-EU 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. With all the features provided, TPD-series touch HMI Devices must be the most cost effective HMI Device ever been in the market.

## Applications -





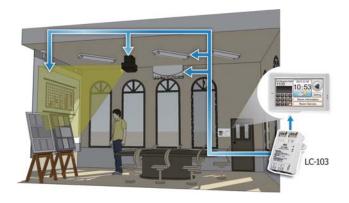




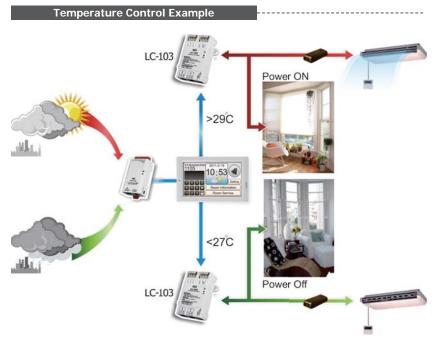
## ■ Applications \_

## PAC Ethernet RS-485 TPD-430/TPD-430-EU/TPD-433/TPD-433-EU

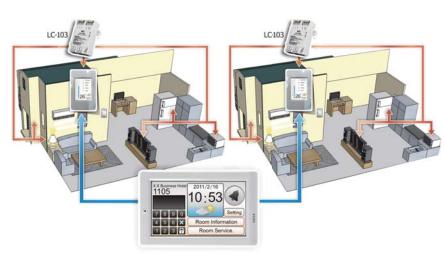
## Meeting Room Example

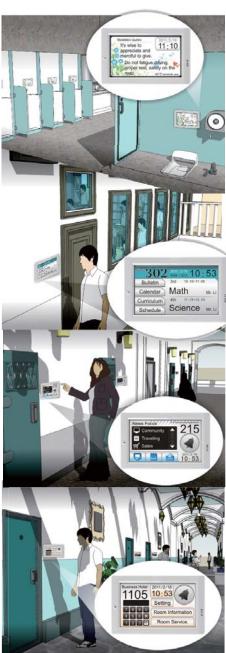


## TouchPAD Anywhere



## Intelligent Building Example



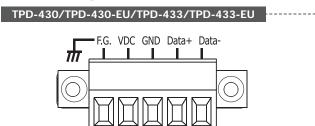




**■** Specifications.

Models	TPD-430	TPD-430-EU	TPD-433	TPD-433-EU
CPU Module				
CPU	32-bit RISC CPU			
Memory Expansion	16 MB SDRAM / 8 MB Flash			
Real Time Clock (RTC)	Yes			
Speaker	Yes			
Rotary Switch (0~9)	Yes			
Communication Interface				
Serial Port	RS-485 (including Self-Tuner)			
USB 1.1 Client	Firmware updates only			
Ethernet	- Yes (RJ-45 x 1, 10/100 Base-TX)			
MMI (Main Machine Interfa	ice)			
LCD	4.3" TFT(Resolution 480 X 272 X 16), defective pixels <= 3			
Backlight Life	20,000 hours			
Brightness	400 cd/m2			
Touch Panel	Yes			
LED Indicator	Yes			
Reset Button	Yes			
Electrical				
Powered from Terminal Block	+10 ~ 30 VDC			
Powered from PoE	- IEEE 802.3af, Class1 (48 V)		, Class1 (48 V)	
Power Consumption	2.5 W			
Mechanical				
Dimensions (W x L x H)	126 mm x 82 mm x 24 mm	126 mm x 92 mm x 29 mm	126 mm x 82 mm x 24 mm	126 mm x 92 mm x 29 mm
Installation	Wall Mount (Suitable for the outlet box in United States )	Wall Mount (Suitable for the European 86mm x 86mm outlet box)	Wall Mount (Suitable for the outlet box in United States )	Wall Mount (Suitable for the European 86mm x 86mm outlet box)
Environmental				
Operating Temperature	-20 ~ +50°C			
Storage Temperature	-30 ~ +80°C			
Ambient Relative Humidity	10 ~ 90% RH, non-condensing			

## Pin Assignments \_

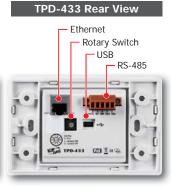


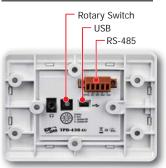
## Appearance \_

## TPD-430/TPD-430-EU/TPD-433/TPD-433-EU Front View LED 4.3" TFT LCD with Touch Panel HMIWORKS Speaker

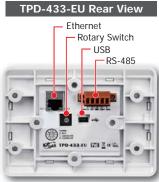
## Rotary Switch USB RS-485

TPD-430 Rear View



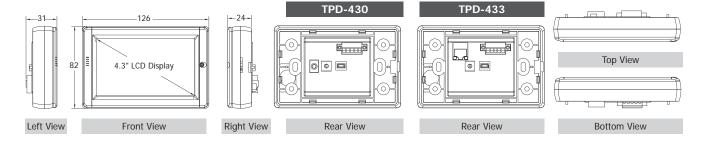


TPD-430-EU Rear View

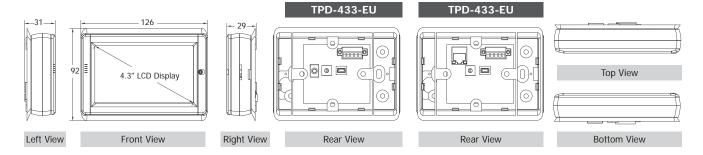


## **■** Dimensions (Units: mm) \_

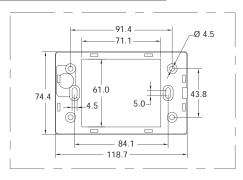
## TPD-430/TPD-433



### TPD-430-EU/TPD-433-EU

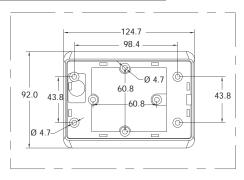


### TPD-430/TPD-433



## Wall Mounting

## TPD-430-EU/TPD-433-EU



## Wall Mounting

## Ordering Information .

TPD-430 CR	4.3" Touch HMI device with RS-485, USB, RTC, Suitable for the Outlet Box in United States (RoHS)		
TPD-430-EU CR	4.3" Touch HMI device with RS-485, USB, RTC, Suitable for the European 86 x 86 mm Outlet Box (RoHS)		
TPD-433 CR	4.3" Touch HMI device with Ethernet, RS-485, USB, RTC, Suitable for the Outlet Box in United States (RoHS)		
TPD-433-EU CR	4.3" Touch HMI device with Ethernet, RS-485, USB, RTC, Suitable for the European 86 x 86 mm Outlet Box (RoHS)		

## Accessories \_\_\_\_\_

CA-USB10	USB to 5P Mini-USB, 28AWG, 1.5 m
1C016	2.4 mm Screw driver
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-T43	External Wall Box for TPD-430/TPD-433
OB120	Outlet Box for TPD-280/TPD-280U/ TPD-283/TPD-430/TPD-433 Devices