





### Features

- Excellent C/P ratio (cost/performance)
- High-resolution color touch screen
- PoE (Power over Ethernet)
- Multiple serial communication interfaces
- RTC (Real Time Clock)
- GUI design
- Free HMIWorks development tool
- Supports the popular C programming language and Ladder Designer
- Supports the custom communication protocol (C language)
- Modbus TCP, Modbus RTU and DCON protocol
- ESD Protection: 4 kV
- Operating temperature: -20 ~ 50°C

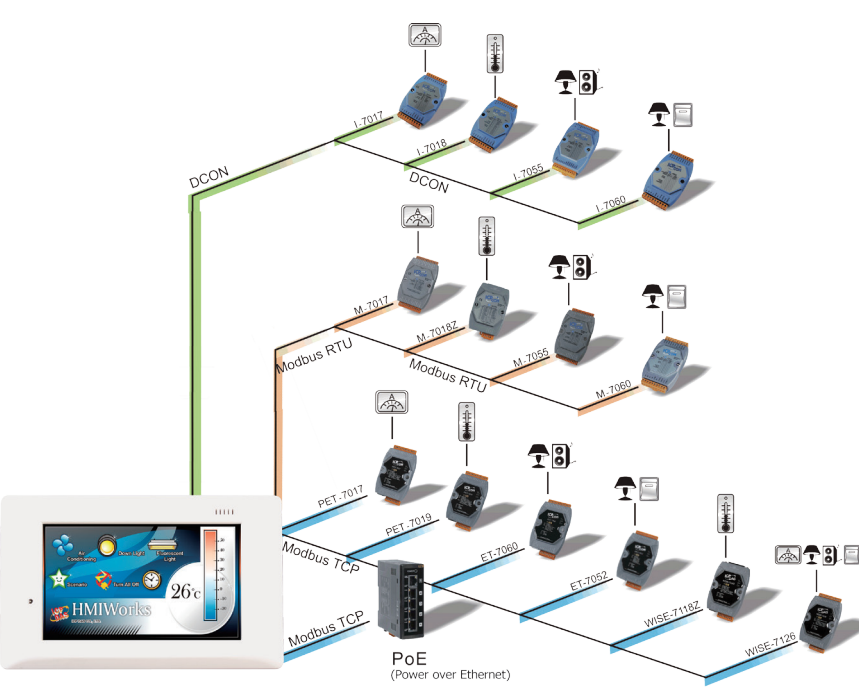





### Introduction

TPD-433F-H/TPD-433-M2 is a series of touch HMI and designed for building and home automation. TPD 4.3 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. It supports Modbus TCP/RTU protocols so that it enables remote control of I/O modules and integration with SCADA software. With all the features provided, TPD-series touch HMI Devices must be the most cost effective HMI Device ever been in the market.


### Applications



TPD-433F-H with External Wall Box EWB-T43F



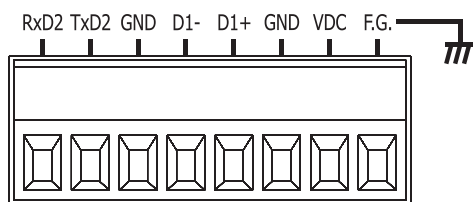
TPD-433F-H with Outlet Box OB140F

 The space between the Ethernet plug and the bottom of the external wall box is too small to bend the coated Ethernet plug

## Specifications

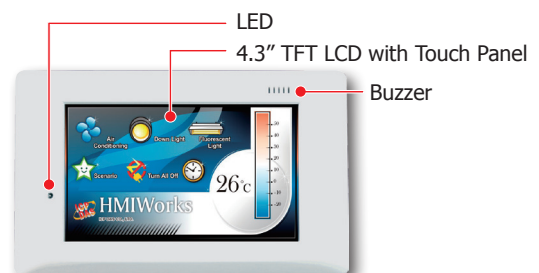
Models	TPD-433F-H	TPD-433-M2
<b>CPU Module</b>		
CPU	32-bit RISC CPU	
Memory Expansion	16 MB SDRAM / 16 MB Flash	
Real Time Clock (RTC)	Yes	
Buzzer	Yes	
Rotary Switch (0~9)	Yes	
<b>Communication Interface</b>		
COM1	RS-485 (including Self-Tuner)	
COM2	RS-232 (3-pin)	
Ethernet	RJ-45 x 1, 10/100 Base-TX	
USB 1.1 Client	Firmware updates only	
<b>MMI (Main Machine Interface)</b>		
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	
<b>Electrical</b>		
Powered from Terminal Block	+12 ~ 48 VDC	
Powered from PoE	IEEE 802.3af, Class1 (48 V)	
Power Consumption	2.5 W	
<b>Mechanical</b>		
Dimensions (W x L x H)	140 mm x 87 mm x 42 mm	
Installation	Wall Mount	
<b>Environmental</b>		
Operating Temperature	-20 ~ +50°C	
Storage Temperature	-30 ~ +80°C	
Ambient Relative Humidity	10 ~ 90% RH, non-condensing	

## Pin Assignments

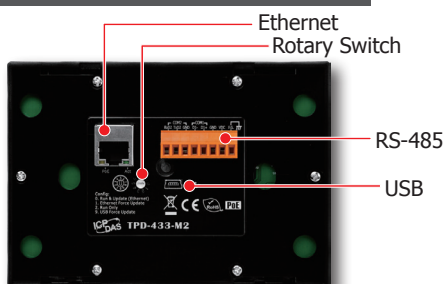


## Appearance

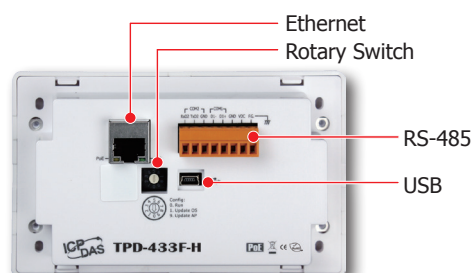
TPD-433F-H/433-M2 Front View



TPD-433-M2 Rear View

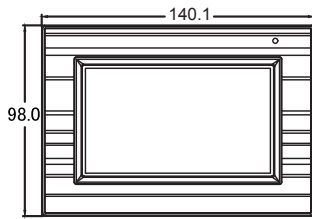


TPD-433F-H Rear View

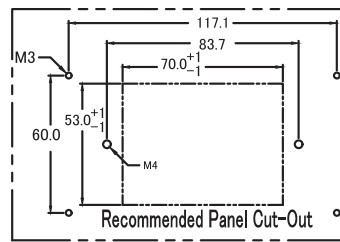


## ■ Dimensions (Units: mm)

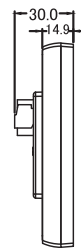
### TPD-433-M2



Front View



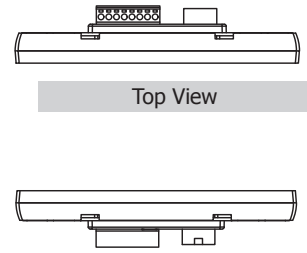
Wall Mounting



Left View



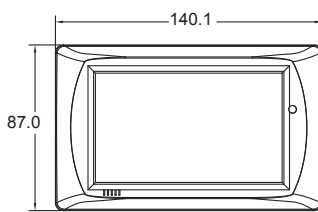
Right View



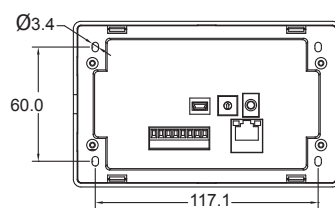
Top View

Bottom View

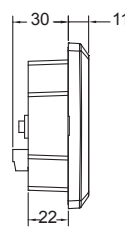
### TPD-433F-H



Front View



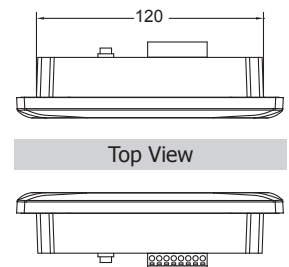
Rear View



Left View



Right View



Top View

Bottom View

## ■ Ordering Information

TPD-433F-H CR	4.3" Touch HMI device with RS-485, RS-232 (3 pin), USB, RTC, Ethernet (RoHS) Art. No. 153254
TPD-433F-M2 CR	4.3" Touch HMI device with RS-485, RS-232 (3 pin), USB, RTC, Ethernet (Multi Panel, RoHS) Auf Anfrage

## ■ 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-T43F	External Wall Box for TPD-433F-H
	OB140F	Outlet Box for TPD-433F-H
	OB140FP	Plastic outlet Box for TPD-433F-H