



VPD-130N-H(-V) 3.5" Touch HMI Device with 1 x RS-232/RS-485



VPD-132N-H 3.5" Touch HMI Device with 2 x RS-232/RS-485

VPD-132-H

3.5" Touch HMI Device

with 2 x RS-232/RS-485

and Rubber Keypad



3.5" Touch HMI Device with $2 \times RS-232/RS-485$, Ethernet (PoE)



3.5" Touch HMI Device Ethernet (PoE) and





VPD-133-H with 2 x RS-232/RS-485, Rubber Keypad





Introduction

VPD-130-H(-V)

3.5" Touch HMI Device

with 1 x RS-232/RS-485

and Rubber Keypad

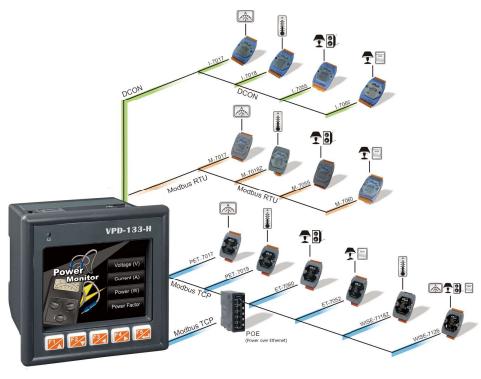
The TouchPAD VPD 3.5" Series is a series of industrial touch HMI devices that features 3.5" high-color high-resolution touch screen LCD. With touch screen capability, it is easy to deploy into all kinds of automation systems, and make them more intuitive and efficient. Either setup new system installations or complete system retrofits, VPD series stands out for its wide variety of communication methods. Its built-in communication ports include RS-232/RS-485 and Ethernet(for VPD-133 series) interface, enable integration into the system allowing users to control, monitor I/O at the remote sides. Besides, front-panel IP65 waterproof as well as the rubber keypad make VPD series more reliable for rugged environments.

HMIWorks, the free development software for VPD series, provides an easy-to-use environment, and powerful and intuitive programming with graphic capabilities to let users create appealing graphical interface screens in minutes. For PLC users, HMIWorks provides Ladder Designer and C language environment for IT users. Especially, it only takes no more than 30 minutes to learn how to create an application program when using Ladder Designer. With all the features provided, VPD series touch HMI Devices must be the most cost effective HMI Device ever been in the market.



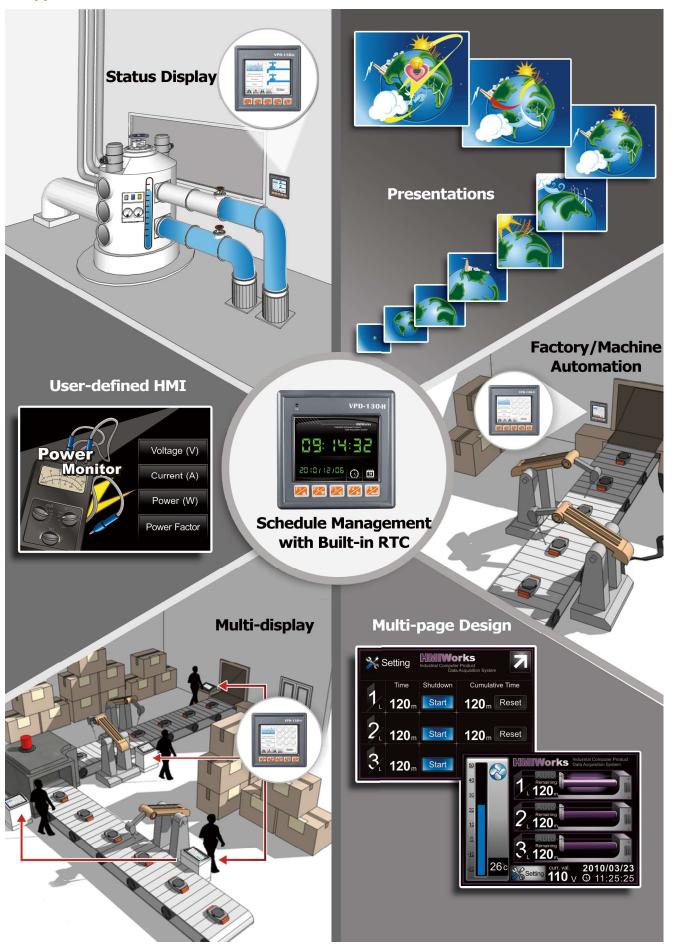






ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 1/7

■ Applications



ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 2/7



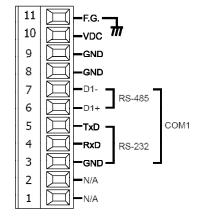
■ Specifications

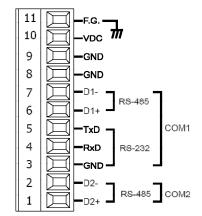
	VPD-130-H	VPD-130N-H	VPD-132-H	VPD-132N-H	VPD-133-H	VPD-133N-H		
Model	VPD-130-H-V	VPD-130N-H-V						
Main Unit								
CPU	32-bit RISC CPU							
Storage	16 MB SDRAM/16 MB Flash							
Real Time Clock			Y	es				
Display								
Туре		LCD 3.5 TFT (Resolution 240 x	320 x 16), defectiv	ve pixels <= 3			
Backlight Life			20,000) hours				
Brightness			270 d	cd/m2				
Touch Panel			Y	es				
LED Indicators								
Status			1 l	.ED				
COM Ports								
Ports		S-485 including -Tuner	1 x RS-232/RS-485 including Self-Tuner 1 x RS-485 including Self-Tuner					
HMI								
Buzzer	Yes							
Rotary Switch	Yes							
Rubber Keypad	5 keys (Programmab l e)							
Reset Button		Yes						
Ethernet								
Ports		- RJ-45 x 1, 10/100 Base-TX)/100 Base-TX		
Power								
Consumption	2 W							
Powered from PoE	IEEE 802.3af, Class1 (48 V)							
Powered from Terminal Block	+12 ~ 48 VDC							
Mechanical								
Dimensions (mm)	103 mm x103 mm x 53 mm							
Installation	DIN-Rail Mounting and Panel Mounting							
Ingress Protection Rating	Front Panel: IP65							
Environmental								
Operating Temperature	-20 ∼ +50°C							
Storage Temperature	-30 ∼ +80 °C							
Humidity	10 ~ 90% RH, Non-condensing							

■ Pin Assignments

VPD-130-H/VPD-130N-H/VPD-130-H-V/VPD-130N-H-V

VPD-132-H/VPD-132N-H/VPD-133-H/VPD-133N-H





ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 3/7

Appearance

VPD-130N-H/132N-H/133N-H Front View

VPD-130-H/132-H/133-H Front View





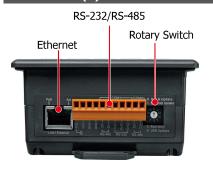
VPD-130(N)-H/132(N)-H/133(N)-H Top View

USB Reset Button
Optional XV-Board



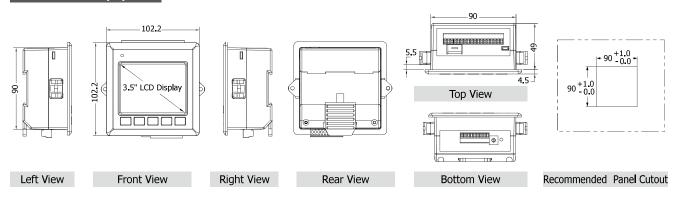


VPD-133(N)-H Bottom View

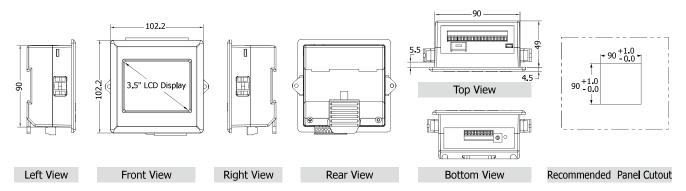


■ Dimensions (Units: mm)

VPD-130-H(-V)

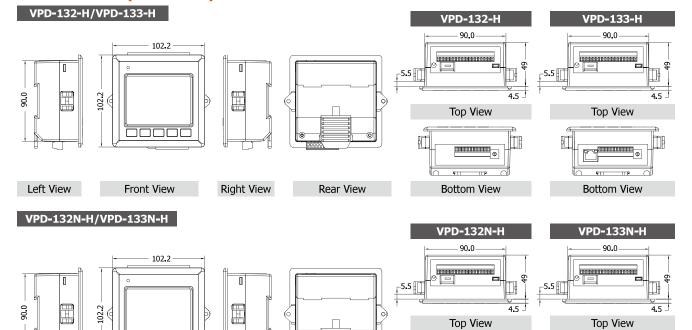


VPD-130N-H(-V)





■ Dimensions (Units: mm)



Rear View

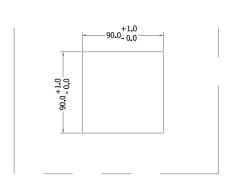
Top View

0

Bottom View

Top View

Bottom View



Front View

Right View

■ Ordering Information

Left View

VPD-130-H CR	3.5" Touch HMI Device with 1 x RS-232/RS-485, RTC, USB Download Port and Rubber Keypad (RoHS)			
VPD-130-H-V CR	5.5 Touch first Device with 1 x R5-252/R5-465, RTC, OSB Download Port and Rubber Reypad (Roffs)			
VPD-130N-H CR	3.5" Touch HMI Device with 1x RS-232/RS-485, RTC and USB Download Port (RoHS)			
VPD-130N-H-V CR	5.5 TOUCH HIM Device with 1x R5-252/R5-465, RTC and 056 DOWNROAD POIL (R0H5)			
VPD-132-H CR	3.5" Touch HMI Device with 1 x RS-232/RS-485 and 1 x RS-485, RTC, USB Download Port and Rubber Keypad (RoHS)			
VPD-132N-H CR	3.5" Touch HMI Device with 1 x RS-232/RS-485 and 1 x RS-485, RTC and USB Download Port (RoHS)			
VPD-133-H CR	3.5" Touch HMI Device with 1 x RS-232/RS-485 and 1 x RS-485, Ethernet (PoE), RTC, USB Download Port and Rubber Keypad (RoHS)			
VPD-133N-H CR	3.5" Touch HMI Device with 1 x RS-232/RS-485 and 1 x RS-485, Ethernet (PoE), RTC and USB Download Port (RoHS)			

Accessories

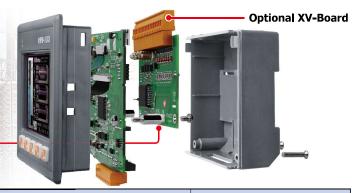
CA-USB10	USB to 5P Mini-USB, 28AWG, 1.5 m
MDR-60-24 CR	24 VDC/2.5A, 60 W Power Supply with DIN-Rail Mounting (RoHS)

ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 5/7

XV-Board Series

IAHA

Making VPD series have its own I/O to control!



Model				Relay Output Board					
		XV107 XV107A XV110			XV111	XV111A	XV116		
Image		S S S S S S S S S S S S S S S S S S S							
Digital In	put								
Channel	-	8	8	16			5		
Contact		Wet	Wet	Dry+Wet			Wet		
Sink/Sourc	e (NPN/PNP)	Source	Sink	Sink/Source			Sink/S	ource	
Wet	On Voltage Level	+3.5 VDC ~ +50 VDC					+3.5 VDC ~	+50 VDC	
Contact	Off Voltage Level	+1 VDC Max.			1		+1 VDC Max.		
Dry	On Voltage Level	-		Close to GND				-	
Contact	Off Voltage Level	-		Open	_	_	-		
	Channels	8		16			5		
Countars	Max. Count	32-bit	(0 ~ 4, 294, 967,	285)	1		32-bit (0 ~ 4, 294, 967, 285)		
Counters	Max. Input Frequency		50 Hz				50 Hz		
	Min. Pulse Width	10 ms			1		10 ms		
Input Impe	edance	10 KΩ, 0.5 W					10 KΩ, 0.5 W		
Overvoltag	e Protection		70 VDC				70 VDC		
Digital O	ıtput								
Channel		8			16				
Туре		Open Collector	Open Emitter		Open Collector	Open Emitter			
Sink/Sourc	e (NPN/PNP)	Sink	Source		Sink	Source			
Load Volta	ge	+3.5 VDC ~ 50 VDC	+10 VDC ~ 40 VDC	-	+3.5 VDC ~ 50 VDC	+10 VDC ~ 40 VDC	-		
Max. Load	Current	700 mA/channel	650 mA/channel		600 mA	/channel			
Overload F	Protection	1.4	Α		1.4	ł A			
Relay Out	tput								
Channel							2 (channel 0, 1)	4 (channel 2~5)	
Type							Signal Relay	Power Relay	
	Contact Rating	0.					2 A @ 30 VDC 0.24 A @ 220 VDC 0.25 A @ 250 VAC	6 A @ 35 VDC 6 A @ 240 VAC	
	Min. Contact Load			10 mA @ 20 mV	100 mA @ ≧ 12 V				
Form A	Contact Material	-					Silver Nickel, Gold-covered	Silver Cadmium Alloy	
Relay	Operate Time						3 ms (typical)	5 ms (typical)	
	Release Time						4 ms (typical)	1 ms (typical)	
	Mechanical Endurance						10 ⁸ ops.	30 X 10 ⁶ ops.	
	Electrical Endurance						2 X 10 ⁵ ops.	1 X 10 ⁵ ops.	
Isolation									
Intra-modu	ule Isolation			37	50 VDC (Field to L	ogic)			
Power Re	quirements								
Consumpti	on	0.15 W	0.45 W	0.25 W	0.2 W	0.8 W	1.2 W		

ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 6/7



			Multifunction Boa	rd		
Model		XV303	XV306	XV307	XV308	XV310
Image		LANNAGE CONTROL			DESCRIPTION OF THE PROPERTY OF	10-11-11-11-11-11-11-11-11-11-11-11-11-1
Analog Inp	ut					
Channel			4		8	4
Sensor Type		\pm 1 V, \pm 2.5 V, \pm 5 V, \pm 10 V, 0 ~ 20 mA, 4 ~ 20 mA, \pm 20 mA (Jumper selectable)			±1 V, ±2.5 V, ± 5 V, ± 10 V, 0 ~ 20 mA, 4 ~ 20 mA, +/-20 mA (Jumper selectable)	
Resolution		-	16-bit	-	16-bit	
Sampling	Normal Mode		10 Hz		10 Hz	
Rate	Fast Mode		200 Hz		200 Hz	
Input Impeda	ance		20 ΜΩ		20 ΜΩ	
Overvoltage	Protection		120 VDC		120 VDC	
Analog Out	put					
Channel		4		2		2
Range Resolution		0 V ~ +5 V, ±5 V, 0 V ~ +10 V, ±10 V, 0 mA ~ +20 mA, +4 mA ~ +20 mA (Jumper Selectable)	-	0 V ~ +5 V, ±5 V, 0 V ~ +10 V, ±10 V, 0 mA ~ +20 mA, +4 mA ~ +20 mA (Jumper Selectable)	-	0 V ~ +5 V, ±5 V, 0 V ~ +10 V, ±10 V, 0 mA ~ +20 mA, +4 mA ~ +20 mA (Jumper Selectable)
Voltage Outp	urt Canability	10 V @ 20 mA		10 V @ 20 mA		10 V @ 20 mA
Current Load	· · ·	500 Ω		500 Ω		500 Ω
	rigital Input/Output	300 32		300 32		300 22
Channel	igital Impat/ Output		_		DI+DO=8 (by Wire)	_
					DI+DO=0 (by Wile)	
Digital Inpu	JC .	4		1	<u>-</u>	4
Sink/Source	(NDN/DND)	4 4 Sink/Source Sink/Source			Source	Source
Siliky Source	On Voltage Level	Siliky Source	+3.5 ~ +50 VDC	Source	+1 VDC Max.	- Source
Wet Contact	Off Voltage Level		+1 VDC Max.		+4 ~ 30 VDC	_
	On Voltage Level		-		Close to GND	Close to GND
Dry Contact	Off Voltage Level				Open	Open
	Max. Count			hit (04 204 067 295)	Ореп	Ореп
Countars	Max. Input Frequency	32-bit (0~4,294,967,285)				
Counters	· · · · · ·			50 Hz 10 ms		
Outside and Due	Min. Pulse Width	70 \/p.c	70	60.1/50	60.1/20	
Overload Pro Digital Out		70 VDC	70	VDC	60 VDC	60 VDC
Channel	put		4		_	4
			Power Relay (Form A)	Sink	Source	
Type			rower Relay (FOITITA)	3.5 ~ 50 VDC	+10 ~ +40 VDC	
Load Voltage Max. Load Current			_	700 mA	650 mA/channel	
Overload Protection				60 VDC	47 VDC	
Contact Rating			6 A @ 35 VDC 6 A @ 240 VAC		17 450	
Min. Contact Load			100 mA @ ≥ 12 V	_	_	
Operate/Release Time		5 n	ns (typica l)/1 ms (typic	-	_	
Mechanical/Electrical Endurance			$\times 10^6$ ops./1 $\times 10^5$ op			
Isolation						
	: Isolation, Field to Logic			2000 VDC		
Power Requ						
Consumption			1.6 W		0.8 W	1.6 W
Consumption			T.O AA	0.0 11	1.0 44	

ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2022.05 7/7