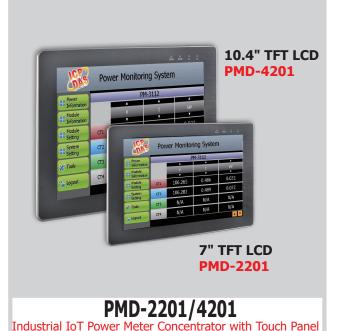


ICP Electronics Australia Pty Ltd TEL: 02 9457 6011 sales@icp-australia.com.au www.icp-australia.com.au

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■ Features

- No extra software tool is required, using browsers to perform system operations
- Support at most 24 ICP DAS Modbus Power Meters (with maximum 16 ICP DAS Modbus TCP Power Meters) and 8 Modbus I/O modules.
 - * Support at most 4 ICP DAS PM-4324 series Power Meters
- 7"/10.4" TFT LCD (with Touch Panel) & PoE (Power over Ethernet) supported
- Display real-time or historical power data by browser or local display
- Provide power data statistics report by browser
- Provide microSD card for power data log operation. Data log file auto send-back & recovery when disconnected network is resumed.
- Built-in IF-THEN-ELSE logic engine for thought-out power demand management
- Provide alarm message notification function via LINE, Messenger or Email
- Adjust device operations by its power status via Modbus I/O modules
- Provide Schedule and Timer function for operations of I/O modules (devices)
- Support Modbus TCP/RTU, SNMP and MQTT protocols
- Support Connection with IoT Cloud Platform (Microsoft Azure and IBM Bluemix); Support ICP DAS IoTstar Cloud software

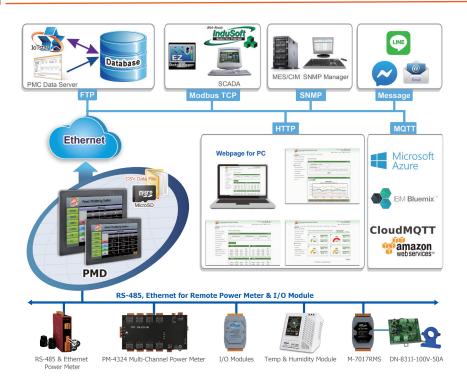




Introduction

PMD is equipped with the TFT LCD (with Touch Panel) and designed for panel mount installation. It provides an easy way for viewing the power data and setting the system parameters at the local side.PMD also is equipped with built-in Web Server that allows direct connections via browsers to the PMD for viewing power data and setting the system parameters. PMD also supports the Modbus TCP/RTU, SNMP, FTP and MQTT protocols for seamless integration with the back-end SCADA/MES/IT/IoT/Network Management systems. In addition to ICP DAS M-7000 I/O modules, the PMD could connect to standard Modbus TCP/RTU Slave modules. By working with the I/O modules, and functions such as IF-THEN-ELSE logic rule execution and alarm notification functions including LINE/Messenger/Email, PMD offers more thought-out power demand management and alarm notification functions, and is able to perform load shedding of the devices if required, and enables real-time monitoring and control of the power consumption of the devices. When using PMD to build a power management and monitoring system, during the whole process of system development, no programming is required; it takes a few clicks on web page to complete all settings; it is easy for the user to quickly view the power data of the devices and furthermore process the data for statistics and analysis. The PMD is an easyto-use and easy-to-build total solution for power management and monitoring that makes more efficient energy usage.

Application



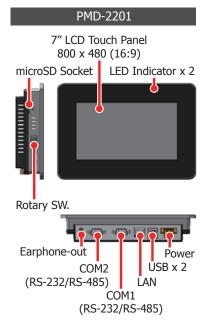


Specifications .

Model	PMD-2201	PMD-4201			
System Software					
Embedded Service	PMC Runtime, Web server, FTP server				
CPU Module	CPU Module				
CPU	32-bit ARM CPU(720MHz)	32-bit ARM CPU(1GHz)			
DRAM	517	2MB			
Flash (SSD)	256MB				
Memory Expansion	microSD socket with 4 GB micro SDHC card (support up to 32 GB)	SD socket with 4 GB SDHC card (support up to 32 GB)			
LED Indicator	2 LEDs for Power and Running (Run, PWR)				
Rotary Switch	Yes (0 to 9)				
LCD					
Diagonal Size	7" (16:9)	10.4" (4:3)			
Resolution	800 x 480	800 x 600			
Brightness (cd/m2)	4	00			
Contrast Ratio	500:1				
LED Backlight Life (hrs)	20,000	50,000			
Touch Panel	4-wire, resistive type; light transmission: 80 %	5-wire, resistive type; light transmission: 80 %			

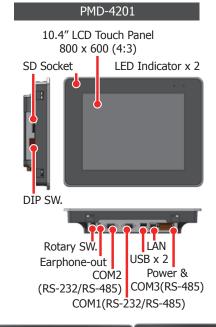
Communication Ports Ethernet 1 x RJ-45 10/100/1000 Base-TX USB 2.0 (host) 2 COM 1 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 2 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated			
Ethernet 1 x RJ-45 10/100/1000 Base-TX USB 2.0 (host) 2 COM 1 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 2 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 3 - RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated Mechanical Dimensions (W x H x D) 213mm x 148mm x 44mm 291mm x 229mm x 54mm Panel Cut-Out (W x H) 197mm x 133mm, +/- 1mm 277mm x 215mm, +/- 1mm Installation Panel Mounting Ingress Protection Front panel: NEMA 4/IP65 Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Voc to +48 Voc Power from PoE IEEE 802.3af	Model	PMD-2201	PMD-4201
USB 2.0 (host) 2 COM 1 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 2 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 3 - RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated Mechanical Dimensions (W x H x D) 213mm x 148mm x 44mm 291mm x 229mm x 54mm 277mm x 215mm, +/- 1mm 1nstallation Panel Cut-Out (W x H) Ingress Protection Front panel: NEMA 4/IP65 Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature Ambient Relative Humidity Power Input Range +12Voc to +48 Voc Power from PoE IEEE 802.3af	Communication Ports		
RS-485 (Data+, Data-) (9-wire DB9 connector); 2500	Ethernet	1 x RJ-45 10/100/1000 Base-TX	
COM 2 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated COM 3 RS-485 (Data+, Data-) (9-wire DB9 connector); 2500 Voc isolated RS-485 (Data+, Data-, GND); 2500 Voc isolated Mechanical Dimensions (W x H x D) 213mm x 148mm x 44mm 291mm x 229mm x 54mm 277mm x 215mm, +/- 1mm Installation Panel Mounting Ingress Protection Front panel: NEMA 4/IP65 Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature Ambient Relative Humidity Power Input Range +12Vpc to +48 Vpc Power from PoE	USB 2.0 (host)		2
COM 2 Voc isolated	COM 1	, , , , , , , , , , , , , , , , , , , ,	
Mechanical	COM 2		
Dimensions (W x H x D) 213mm x 148mm x 44mm 291mm x 229mm x 54mm 197mm x 133mm,	COM 3	-	RS-485 (Data+, Data-, GND); 2500 Vpc isolated
Panel Cut-Out (W x H) 197mm x 133mm,	Mechanical		
Panel Cut-Out (W x H) +/- 1mm +/- 1mm Installation Panel Mounting Ingress Protection Front panel: NEMA 4/IP65 Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Vpc to +48 Vpc Power from PoE IEEE 802.3af	Dimensions (W x H x D)	213mm x 148mm x 44mm	291mm x 229mm x 54mm
Ingress Protection Front panel: NEMA 4/IP65 Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Vpc to +48 Vpc Power from PoE IEEE 802.3af	Panel Cut-Out (W x H)	,	. ,
Environmental Operating Temperature -10 °C ~ +60 °C Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Vpc to +48 Vpc Power from PoE IEEE 802.3af	Installation	Panel Mounting	
Operating Temperature -10 °C ~ +60 °C Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Vpc to +48 Vpc Power from PoE IEEE 802.3af	Ingress Protection	Front panel: NEMA 4/IP65	
Storage Temperature -20 °C ~ +70 °C Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Voc to +48 Voc Power from PoE IEEE 802.3af	Environmental		
Ambient Relative Humidity 10 ~ 90% RH (non-condensing) Power Input Range +12Voc to +48 Voc Power from PoE IEEE 802.3af	Operating Temperature	-10 °C ~ +60 °C	
Humidity	Storage Temperature	-20 °C ∼ +70 °C	
Input Range +12Vpc to +48 Vpc Power from PoE IEEE 802.3af	/ II II DI CITE I COLGETTO	10 ~ 90% RH (non-condensing)	
Power from PoE IEEE 802.3af	Power		
1222 0021501	Input Range	+12Vpc to +48 Vpc	
Consumption 6W 13W	Power from PoE	IEEE 8	302.3af
	Consumption	6W	13W

Appearance -









,	System Settii	_		
Datetime S	etting	Network In	form	ation(LAN1)
Date 20	016/03/25	IP	192	.168.100.204
Time 14	1:32:19	Mask	255	255.255.0
Time Synchro	onization	Gateway	192	.168.100.254
	Enable	DNS	8.8	.8.8
Sync Interval	6 Hours	Por	t Set	ting
Time Zone	(GMT+08:00)	Web Server I	Port	80
Daylight Saving Tim	Disable	Modbus TCP	Port	502
Other	:	Modbus Net	ID	1
Language Er	nglish	Secur	ity S	etting
Firmware Version 3.	0.8	Idle Time	10	Minute(s)

	Power Meter List	W4 2442	-	
No.	Interface Net COMI	D/Address Module N 1 F44-31		
	V	1	kW	kvar
CT1	106.165	0.487	0.032	0.041
CT2	106.183	0.491	0.032	0.041
стз	N/A	N/A	N/A	N/A
CT4	N/A	N/A	N/A	N/A

Ordering Information .

PMD-2201 CR	Industrial IoT Power Meter Concentrator with 7" Display (English) (RoHS)
PMD-4201 CR	Industrial IoT Power Meter Concentrator with 10.4" Display (English) (RoHS)

Accessories _

Danier Mater	Modbus RTU: PM-2133, PM-3133, PM-3112, PM-3114, PM-3033, PM-4312 and PM-4324	
Power Meter	Modbus TCP: PM-3112-MTCP, PM-3114-MTCP, PM-3133-MTCP, PM-3033-MTCP, PM-4312-MTCP and PM-4324-MTCP	
DP-660	24 Voc/2.5 A, 60 W and 5 Voc/0.5 A, 2.5 W Power Supply with DIN-Rail Mounting	
MDR-60-24 CR	24 V _{DC} /2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)	