

■ Features

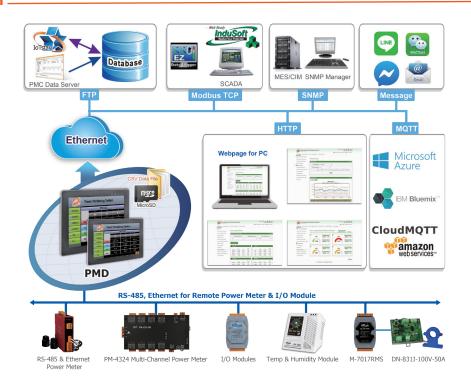
- No extra software tool is required, using browsers to perform system operations
- Support at most 24 ICP DAS Modbus Power Meters (with maximum 16 ICP DAS Modbus TCP Power Meters) and 8 Modbus I/O modules.
 - * Support at most 4 ICP DAS PM-4324 series Power Meters.
- 7"/10.4" TFT LCD (with Touch Panel) & 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 via LINE, Messenger, WeChat 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/WeChat/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 easy-to-build total solution for power management and monitoring that makes more efficient energy usage.

Application

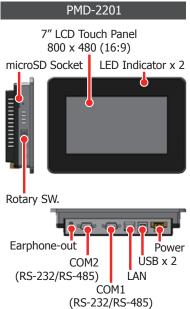


■ Specifications _

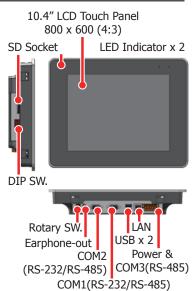
Model	PMD-2201	PMD-4201				
System Software						
Embedded Service	PMC Runtime, Web server, FTP server					
CPU Module						
CPU	32-bit ARM CPU(720MHz)	32-bit ARM CPU(1GHz)				
DRAM	512MB					
Flash (SSD)	256MB					
Memory Expansion	microSD socket with 4 GB micro SDHC card (support up to 32 GB)	SD socket 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)	400					
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 %				

Model	PMD-2201	PMD-4201			
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				
COM 3	RS-485 (Data+, Da GND); 2500 V _{DC} isola				
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	+12Vpc to +48 Vpc				
Power from PoE	IEEE 802.3af				
Consumption	6W 13W				

Appearance .







PMD-4201

	Power Meter List		•	C
No.		D/Address Module		
ı	COMI	1 944-3	1112 1.	00 1.00
	v	1	kW	kvar
	_	<u> </u>	<u> </u>	
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 (RoHS)		
PMD-4201 CR	Industrial IoT Power Meter Concentrator with 10.4" Display (RoHS)		
PMD-2206 CR	Industrial IoT Power Meter Concentrator with 7" Display (With WeChat Message Sending) (RoHS)		
PMD-4206 CR	Industrial IoT Power Meter Concentrator with 10.4" Display (With WeChat Message Sending) (RoHS)		

■ Accessories .

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