

	R Features
Image: Contract of the contex of the contract of the contract of the contract o	 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 Data file auto send-back & recovery when network is resumed after disconnection Built-in IF-THEN-ELSE logic engine for thought-out power demand management Provide alarm message notification function via Email or LINE 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 Slave protocol for seamless integration with SCADA Support SNMP and MQTT protocols
PMD-2201/4201 ial IoT Power Meter Concentrator with Touch Pane	Support Connection with IoT Cloud Platform (Microsoft Azure and IBM Bluemix) Support ICP DAS IoTstar Cloud software.
PMD-2201 PMD-2201/4201 ustrial IoT Power Meter Concentrator with Touch Pane	

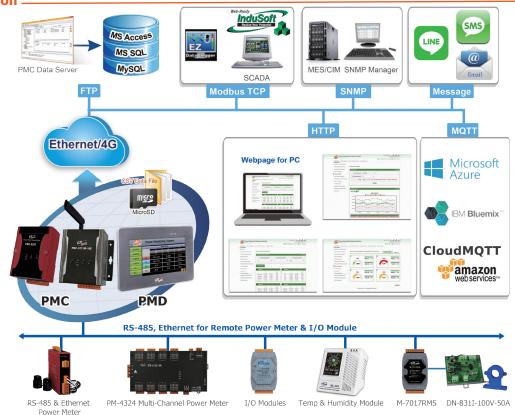
Introduction

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 Email/ SNMP Trap, 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-use and easy-to-build total solution for power management and monitoring that makes more efficient energy usage.

Application -



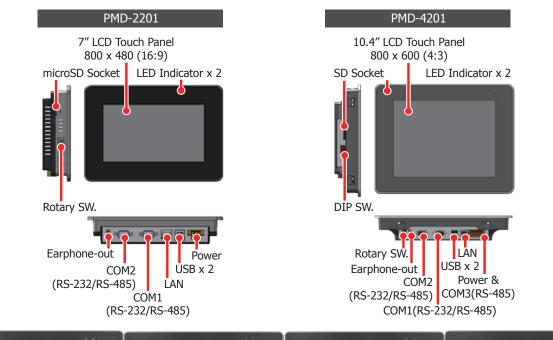
PMD Series

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	512	2MB						
Flash (SSD)	250	6MB						
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	D Indicator 2 LEDs for Power and Running (Run, PWR)							
Rotary Switch	h 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	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 Vbc isolated								
COM 2	RS-485 (Data+, Data-) (9-w V _{DC} isolated	vire DB9 connector); 2500							
COM 3	RS-485 (Data+, Data-, GND); 2500 V _{DC} 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	+12Vpc to +48 Vpc								
Power from PoE	IEEE 802.3af								
Consumption	6W	13W							

Appearance .



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AQ.	5 POV	ver Monito	ing system	1		Power Data	list V	2		0		Datetime	Setting	Network I	nformation(LAN1)		Power Meter List			0
Rever Information		F	M-3112		Status	Nickname	CT / Phase A	CT / Huse B	CT / Phase C	CT / Awrage			2016/03/25 14:32:19	IP Mask	192.168.100.204 255.255.255.0	No. 1	Interface NetE COMI)/Address Module N 1 PM-311		io1 CTRatio1
Information		٧	I	KW		PM-3114	107.175	107.175	106.006	105.005		Time Synch	ronization	Gateway	192.168.100.254		-			
Module		•		· ·						105.809		Function Status	Enable	DNS	8.8.8.8		v	1	kW	lorar
Setting	CT1	106.265	0.486	0.032		PM-3133-MTCP	105.826	105.834	105.827	105.829		Sync Interval	6 Hours		rt Setting	CT1	106.165	0.487	0.032	0.041
System Setting	CT2	106.282	0.489	0.032		PM-3114-MTOP	0.000	0.000	0.000	0.000		Time Zone	(GMT+08:00)	Web Server Modbus TCP		and the second second				
Tools	- m	N/A	N/A	N/A	اة	PM-3112-MTCP	0.000	0.000	M/A	11/4		Daylight Saving Ti		Modbus TCP Modbus Ne		CT2	106.183	0.491	0.032	0.041
Constant Logout	CT4	N/A	N/A	N/A	Ť	PM-3112-MTCP	105.744	105.752		N/A		Oth Language			rity Setting	стз	N/A	N/A	N/A	N/A
a second				A 🔽	•	PM 3133 MTOP	0.000	0.000	0.000	0.000		Firmware Version	3.0.8	Idle Time	10 Minute(s)	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							
Power Meter	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	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	MDR-60-24 CR 24 V _{DC} /2.5 A, 60 W Power Supply with DIN-Rail Mounting (RoHS)						