



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Power Monitoring and Management Solution

ICP DAS PMMS (Power Monitoring and Management Solution) includes: front-end on-site Smart Power Meter, Power Meter Concentrator, and back-end software tool for data management that fit customers' needs. With these total solutions provided so that the user could easily check power data from their mobile phones or PC, and the administrator could set up the system quickly without complicated coding. Simply complete the settings through the web or software to perform power monitoring and data recording and then the user could fully understand the efficiency of the power usage and furthermore establish policies to achieve effective energy saving. During the early stage, if the scale is small, user could simply use Smart Power Meter and PMC to set up a simple acquisition monitoring system, once the scale is expanded, the user could get the back-end software tool involved and build an easy-to-expand monitoring system via blocks stacked structure. By this way, the system will be highly flexible and could be implemented in phases to meet various requirements. ICP DAS offer both single phase, three phase, and multi-circuit power meter to meet industrial power monitoring requirement.



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Single-Phase

Single-phase distribution is used when loads are mostly lighting and heating, with few large electric motors. It is being used in home and small company. ICP DAS provides the most powerful, cost-effective, advanced Smart Power Meters PM-3112/3114 series that gives you access to real-time electric usage for single-phase power measurement. With its high accuracy ($<1\%$, $PF=1$), the PM-3000 series can be applied to both low voltage primary side and/or medium/high voltage secondary side and enables the users to obtain reliable and accurate energy consumption readings from the monitored equipment in real time under operation. These compact size and cost-effective power meters are equipped with revolutionary wired clip-on CT (various types, support input current up to 200 A). It operates over a wide input voltages range 10 ~ 300 VAC which allows worldwide compatibility. And with 2 channels relay outputs, it can be linked with sirens or lightings for alarm messages. It also supports Modbus RTU, Modbus TCP or CAN bus protocols for easy integration.



Model: PM-3112



Model: PM-3114

PM-3112/PM-3114 - 2/4 Loops single-phase Smart Power Meter



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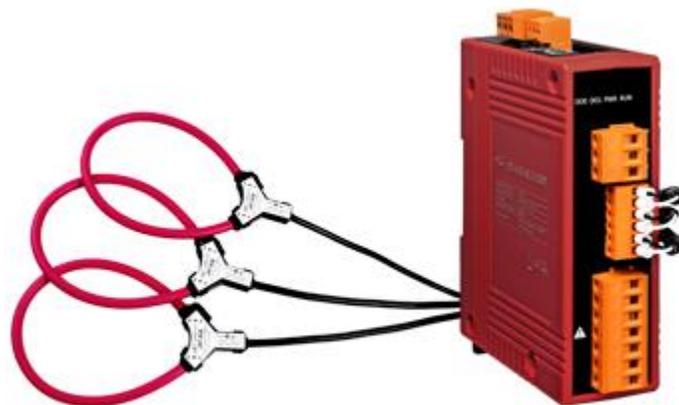
Three-Phase

Three-phase power is commonly used in large businesses and industry. The power consumption is usually high, such as manufacturing industry and high density data centers. Only three phase power can provide safe, stable and reliable power delivery to the plants. Three-phase power systems have at least three AC voltages that are offset by 120 degree with respect to time.

ICP DAS has PM-3033/3133 series power meter that can measure 3-phase voltage up to 500V and 400A with included CT. Modbus RTU, Modbus TCP, and CANopen protocol are supported for data communication. And with 2 channels relay outputs, it can be linked with sirens or lightings for alarm messages. Our latest three-phase smart power meter PM-3133-RCT series allows user measure 500V, 2000A current with Rogowski Coil CT. These compact size and cost-effective power meters monitoring equipment with Rogowski Coil CT is "rope-style" Current Transformer which delivers "Easy Installation" features for large window size (55 ~ 105mm) and mechanical flexibility for tight space. It can be used for measuring high current/ voltage application.



Model: PM-3133



Model: PM-3133-RCT/-RCT-MTCP/-RCT-CPS



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Multi-Circuit Power meter

To measure combination of single phase and three phase power, multi-circuit power meter is the best solution. PM-4324 Multi-Circuit Power Meter can measure power up to 8 three phase circuits or 24 single phase circuits, and 24 currents via external Current Transformers (CTs). This flexibility makes the PM-4324 perfect for multitenant facilities such as residential projects, office buildings and shopping malls. This compact instrument is designed to easily fit into existing panel boards or be flush mounted nearby, thus eliminating the need for expensive retrofit projects or for allocating extra space for the device.



PM-4324 Multi-Circuit Power Meter

If you have other power monitoring requirements or have some questions, we can certainly help you to choose the best solution. Please call our technical support team at (310) 517-9888 X102