



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Power Monitor & Management Solutions using PMC-5231

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, users could get the back-end software tool involved and build an easy-to-expand monitoring system via blocks stacked structure. 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.

Few months ago, we discussed about our regular power meter concentrator PMC-5151. It allows connections to ICP DAS power meters via RS-485 or Ethernet interface to read the power data of the devices measured by the power meters; and then real-time record the power data in the data file. PMC also provides data logger file auto send-back function; together with PMC Data Server software or SCADA software, it allows collection and analysis of the power data.

Now, we introduce our new Industrial IoT Power Meter Concentrator, PMC-5231. It supports connection up to 24 ICP DAS Modbus Power Meters and 8 Modbus I/O modules (COM3, COM4 and LAN interface can connect to Max. 16 power meters individually)





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PMC-5231 is the new generation of Power Meter Concentrator for meeting the trend of energy saving and carbon reduction in the Industry 4.0 age. It provides flexible integration with the ICP DAS power meters via RS-485 or Ethernet interface, and features various functions such as: measure the power consumption of the devices, energy usage analysis, power demand management and alarm notification functions. They feature a built-in Micro SD card. After it retrieving the power data from the power meter, it will save the power data in data log file, and automatically send back the data log files to the back-end management center for data analysis and statistics.

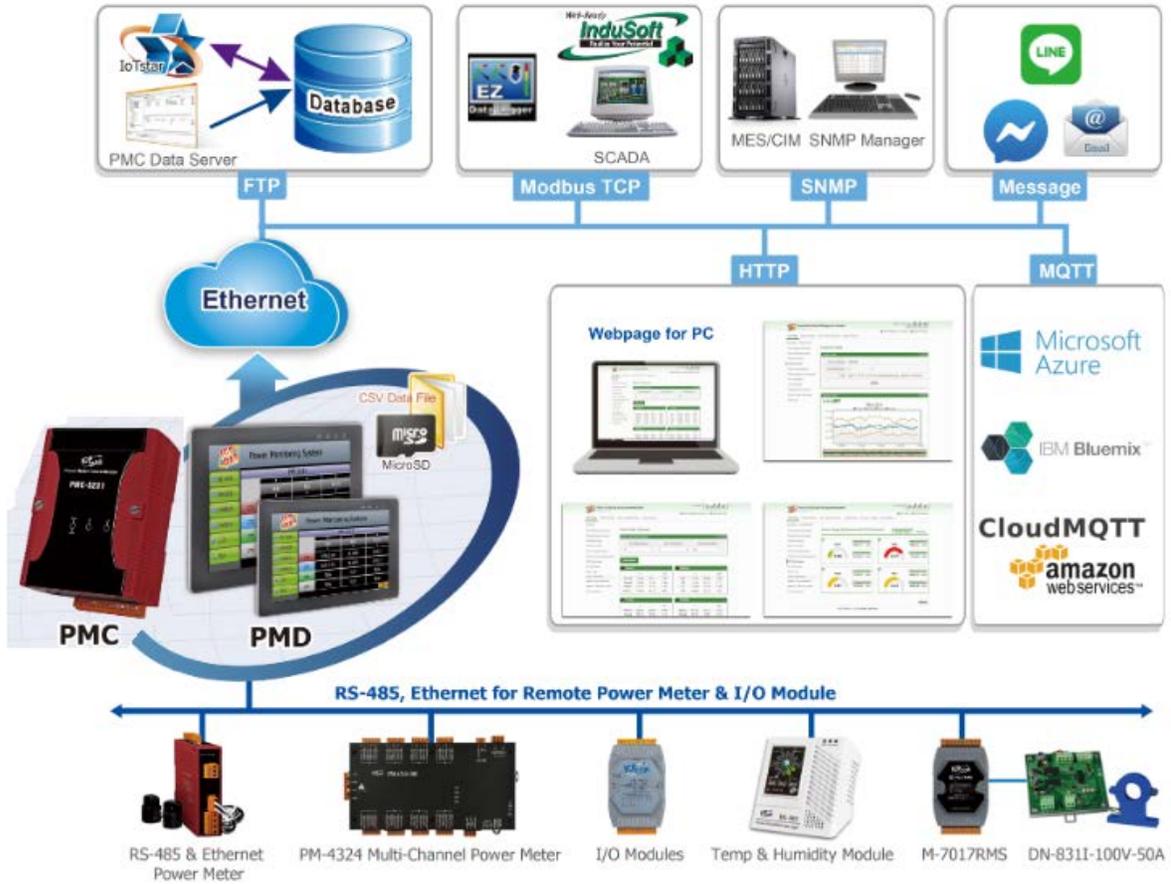
Unlike PMD, PMC doesn't have a display, but both of them offer a user-friendly and intuitive web site interface that allows users to implement the Energy monitoring and management system just a few clicks away; no programming is required. In addition to ICP DAS XV-Board and M-7000 I/O modules, they can also 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, PMC-5231 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.

PMC-5231 supports Modbus TCP/RTU, SNMP, FTP and MQTT protocols for seamless integration with the back-end SCADA/MES/IT/IoT/Network Management systems. So that the administrator can monitor the status of power consumption of each device and perform statistics and analysis of the power information, thus improving the overall efficiency in electricity consumption to save costs on utility bills. All of these features make IoT Power Meter Concentrator a perfect concentrator of power meter in the Energy monitoring and management application of Industry 4.0 age.



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If you have other Power Meter Data Logger and Data Server 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