Case Study

EKM Metering
Modbus, BACnet, Rockwell, HTTP Gateway

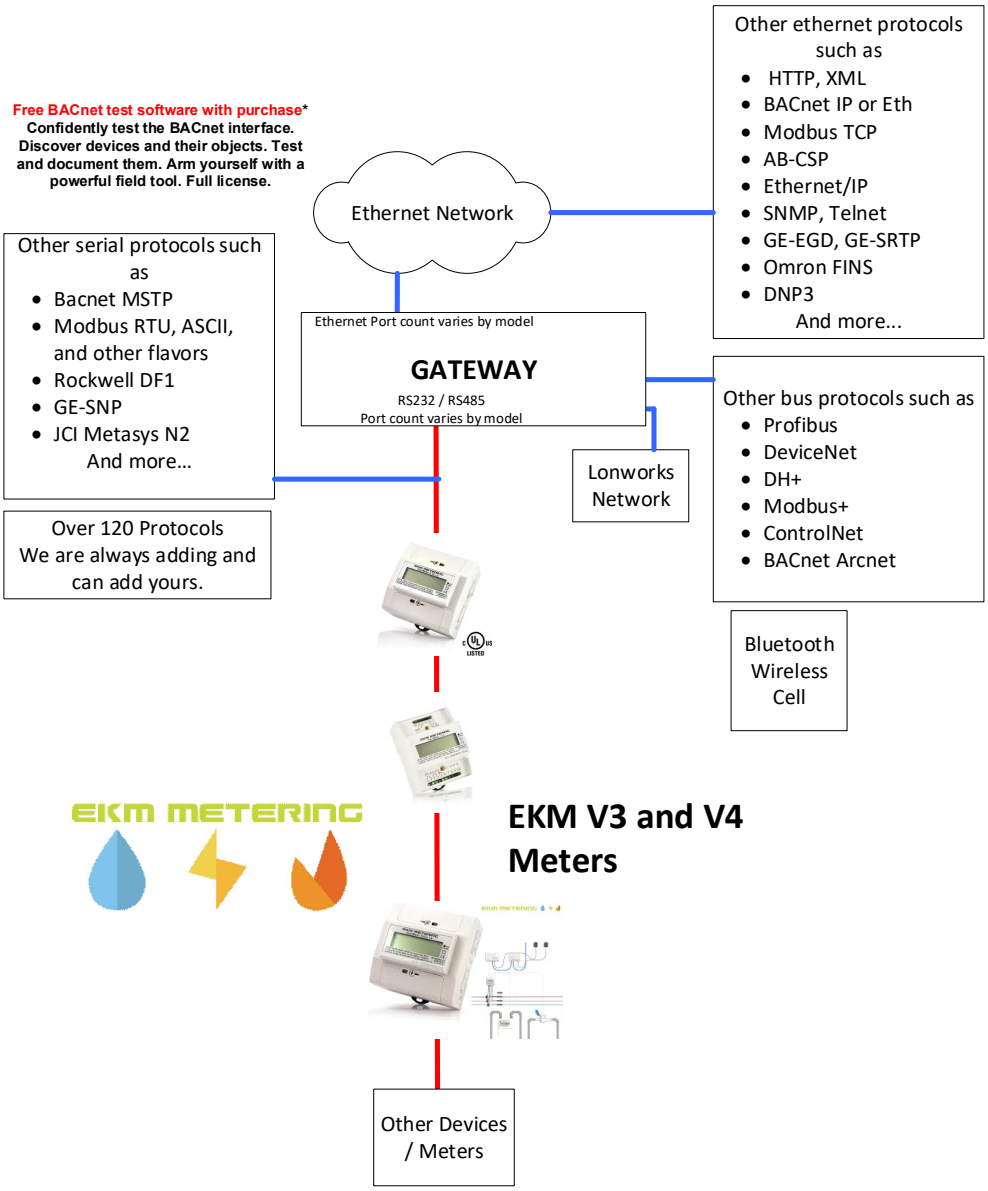
Chipkin, with the support of EKM, has developed a custom driver for the EKM V.3 and V.4 Meters. This allows any remote system to read operational and energy data from the meters and serve this data to foreign systems using commonly used protocols such as Modbus, BACnet, Rockwell, GE, Omron, JCI and many more. This makes it easy to integrate EKM Metering products into almost all Building Automation Systems.

Chipkin Automation Systems

Case Study: EKM Metering New Protocol Gateway

Introduction

EKM Metering provides low cost submetering systems for any residential, commercial, or industrial applications. The products are highly regarded, incredible money for value, easy to install and now – easy to integrate thanks to the Chipkin gateway. Chipkin have implemented the driver on the 'FieldServer' and 'QuickServer' gateways manufactured by Sierra Monitor Corp. of California. The driver may be linked with any of the over 140 protocols supported by the gateways.



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Protocol to protocol – Enabling the IOT Internet of Things

Products that support approx.. 140 major protocols. If we don't have a solution for you we will make you one. More than a dozen customers a year have a custom driver developed for them.

Chipkin are highly regarded for their outstanding support. System integration isn't always trivial even if that is what they tell you.

The Chipkin BACnet stack comes with a 100% copyright infringement indemnity to make corporate lawyers happy. Customers get direct access to the stack developers for coaching and problem solving.

EKM Metering

EKM Metering is an innovative OEM that designs and manufactures advanced metering

hardware, cloud communication systems, and energy management systems. EKM Metering specializes in plug-and-play hardware designed for revenue-grade accuracy, scalability, security and reliability.

EKM's Omnimeter series of electric meters use external CTs and can meter nearly any electrical system from 120-600V, single phase or three phase, up to 5000 amps per phase. The Omnimeters measure kWh, watts, volts, amps, power factor, and more. EKM Omnimeters are UL Listed and meet ANSI C12 accuracy standards.

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Some Details

The driver connects to the meters by means of a 2-wire RS485 trunk. FSB-3510 and QS-1010 series gateways have 2x RS485 ports and can thus support 2 trunks. Other models have RS232, Lonworks and some fieldbus support (eg. Profibus, Devicenet)

The driver can read all energy, operational and status data from the Meters. (V3-Read V4-ReadA V4-ReadB, V4-SixMonthsFWD and REV).

The Driver can be configured to control the Relays present on the V4 Meters, reset the Resettable totals, set the meter time and change the CT ratio.

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Keywords

EKM Metering Modbus

EKM Metering BACnet

EKM Metering EthernetIP

EKM Metering Building Automaton

EKM Metering protocols

EKM Metering gateway

EKM Omnimeter bacnet

EKM Omnimeter Integration

EKM Omnimeter protcol

EKM V3 Bacnet

EKM V4 Bacnet

EKM Integration

EKM BAS

EKM Building Automation

EKM Metering converter