



# EMU4 Plus Energy Measuring Unit – Product Overview

## FREQUENTLY ASKED QUESTIONS

- What are typical applications for EMU4 Plus Series power meters?

EMU4 Plus power meters are a good fit when metering multiple loads for extensive sub-metering panels, facility or building automation loads, and production line loads. The EMU4 Plus meter with its compact design, native Modbus RTU communication, and extension modules make it easy to provide energy intelligence at low cost. EMU4 Plus meters can be integrated with Mitsubishi Electric or any third party automation platform.

- What type of extension modules are supported by EMU4 Plus power meters?

The EMU4-A2 extension module adds metering for 2 additional circuits at the same bus voltage as the master module. The EMU4-VA2 extension module adds metering for 2 additional circuits that are on a voltage different than that of the master module. Up to 3 extension modules are supported by the master module. Master module options include: EMU4-BM1-MD (for 220Volt system, no harmonics), The EMU4-HM1-MB (277/480V WYE system and 13th harmonics), and EMU4-LG1-MB for insulation monitoring. The EMU4 Plus meter allows metering up to 14 single phase circuits OR 7 three phase circuits.

- What type of current sensors are required with EMU4 Plus power metering applications?

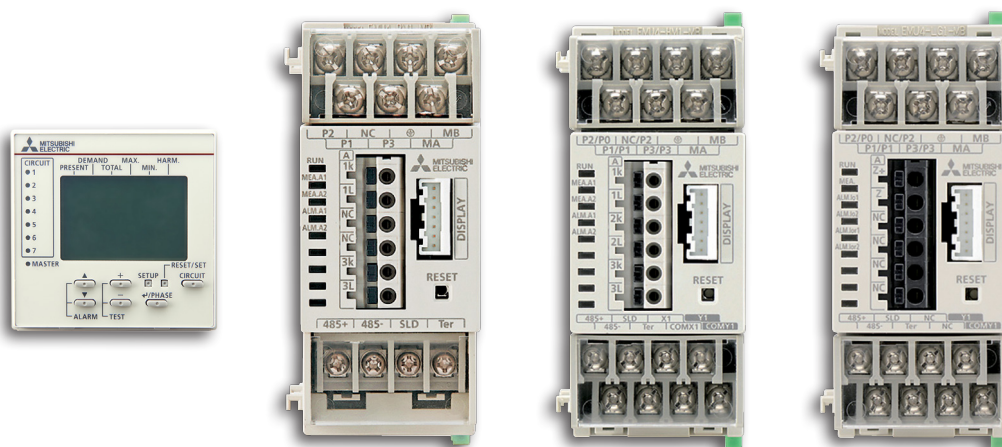
For any power metering application, current sensors/current transformers are required. EMU4 Plus models require EMU-CTxxx current sensors. EMU CTs are available in 50A, 100A, 250A, 400A, and 600A.

Two EMU-CTs are required for 3-phase 3-wire circuit and three EMU-CTs are required for a 4-wire WYE circuit.

- What types of data logging or communication options and display options are available with these units?

EMU4-D65 is a remote display option that is used to configure the meter. EMU4 Plus series also supports EMU4-LM (logging module) or EMU4-CM-C (CC-Link communication) option. CC-Link communication is recommended with EcoWebServer architecture.

The data logging option is recommended for OEM applications. Data is stored on an SD card. Different logging rate options are available from second, minutes to hourly resolution. When logging data at hourly rate, EMU4 can store several months of data in csv format (compatible with Microsoft Excel).



## MITSUBISHI ELECTRIC AUTOMATION, INC.

500 Corporate Woods Parkway, Vernon Hills, IL 60061  
Ph 847.478.2100 • Fx 847.478.2253

[us.MitsubishiElectric.com/fa/en](http://us.MitsubishiElectric.com/fa/en)

March, 2016 • ©2016, Mitsubishi Electric Automation, Inc.  
Specifications subject to change without notice. • All rights reserved

L-VH-05012  
F72-155-SLSMKTG-004-D