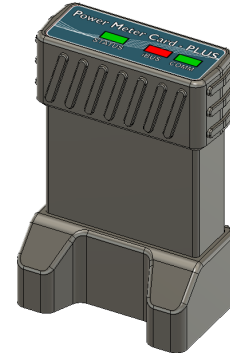


3-CHANNEL POWER METERING MODULE FOR WATTSOn-MCM

The WMC-PM is a modular metering card designed for seamless integration into the WattsOn-MCM platform, enabling flexible and granular power and energy monitoring across multiple circuits. Each WMC-PM module delivers high-accuracy electrical measurement for up to three channels and supports a variety of CT (current transformer) input types to match diverse installation environments.

FEATURES:

- Three-channel measurement per module
- Supports mA-based, mV-based, or Rogowski coil (RC) inputs.
- Accuracy of 0.1% for current, and 0.2% for power/energy
- Per-channel configuration of CT ratios, voltage/current mappings, and channel naming.
- Virtual metering allows creation of calculated data points via embedded math functions and scripting across all channels and inputs



USE CASES & BENEFITS:

- **Modular system growth:** Start small and expand as monitoring needs grow, without full re-deployment.
- **Circuit-level visibility:** Enables detailed energy profiling for sub-systems, equipment, or tenants.
- **Protocol flexibility:** Integrates into modern building automation, SCADA, or energy management systems via standard protocols (Modbus, BACnet, HTTP, MQTT).
- **Custom analytics:** Use virtual points for on-the-fly calculations (e.g. summing loads, combining circuits) without external software.

APPLICATIONS:

- Commercial buildings, data centers, and campuses
- Renewable energy systems and microgrids
- Industrial installations and manufacturing plants
- Tenant energy sub-metering

SPECIFICATIONS:

INPUTS			ACCURACY		
Supported Wiring Types	Up to 347/600V Delta, Wye Single-phase installations up to 347V RMS Split-phase (two phase) installations		Standards	Class 0.2 Accuracy	
Frequency	40-70 Hz nominal (30-300 Hz max)			Supports EN 50470-1, 50470-3, IEC 62053-21, -22, -23.	
Voltage	20Vac - 347Vac L-N (600Vac L-L), (450Vac L-N, 780V L-L absolute max.)		Current (A)	0.05% typ	0.1% max
Current	<i>-mA Model</i>	<i>-mV Model</i>	Voltage, L-N (V)	0.2% typ	0.5% max
Input Rating	Up to 200mA (from mA CTs)	400mV (max) mV CT / Rogowski Coil (selectable)	Voltage, L-L (V)	0.2% typ	0.5% max
Input Impedance	1.5Ω typ.	600kΩ min, 1.2MΩ typ	Power* (W, VA, VAR)	0.2% typ	0.5% max
Wire Size	Voltage: AWG 30-12, (AWG 16-22 recommended) Current: AWG 24-12, (AWG 12-16 recommended)		Energy* (Wh, VAh, VARh)	0.2% typ	0.5% max
Overload	20% continuous (voltage & current) maintaining full accuracy. 100% momentary current overload.		Power Factor	0.5% max	
			Frequency	0.01% max	
			Input Bandwidth	2 kHz 33rd Harmonic @ 60Hz 40th Harmonic @ 50Hz	
			Data Update Frequency	2Hz (every 500ms) for all parameters	

ORDERING INFORMATION:

WMC-PM-L-XY : (Lite): Three channels of V, A, PF, kW, kWh (absolute)
 WMC-PM-P-XY : (Plus): Three channels of V, A, PF, kW, kVAR, kVA, kWh (import/export)

Where -XY represents the desired CT input type (-mA, -mV)