

	EM4235	EM4236
<b>MEASUREMENT CAPABILITY - FULL DATA SET</b>		
Bi-directional Energy Measurements	•	•
Power (3-Phase Total and Per Phase): Real (kW) Reactive (kVAR), and Apparent (KVA)	•	•
Power Factor: 3-Phase Average and Per Phase	•	•
Present Power Demand: Real (kW), Reactive (kVAR), and Apparent (kVA)	•	•
Import and Export Totals of Present Power Demand: Real (kW), Reactive (kVAR), and Apparent (kVA)	•	•
Peak Power Demand: Real (kW), Reactive (kVAR), and Apparent (kVA)	•	•
Current (3-Phase Average and Per Phase)	•	•
Voltage: Line-Line and Line-Neutral (3-Phase Average and Per Phase)	•	•
Frequency	•	•
ANSI C12.20 0.2% Accuracy, IEC 62053-22 Class 0.2S	•	•
Accumulated Net Energy: Real (kW), Reactive (kVAR), and Apparent (kVA)	•	•
Accumulated Real Energy by Phase (kWh)	•	•
Import and Export Accumulators of Real Apparent Energy	•	•
Reactive Energy Accumulators by Quadrant (3-Phase Total and Per Phase)	•	•
Demand Interval Configuration: Fixed or Rolling Block	•	•
Demand Interval Configuration: External Sync to Comms	•	•
<b>OUTPUTS</b>		
RS-485 Serial (Modbus RTU Protocol)	•	•
RS-485 Serial (BACnet MS/TP Protocol)	•	•

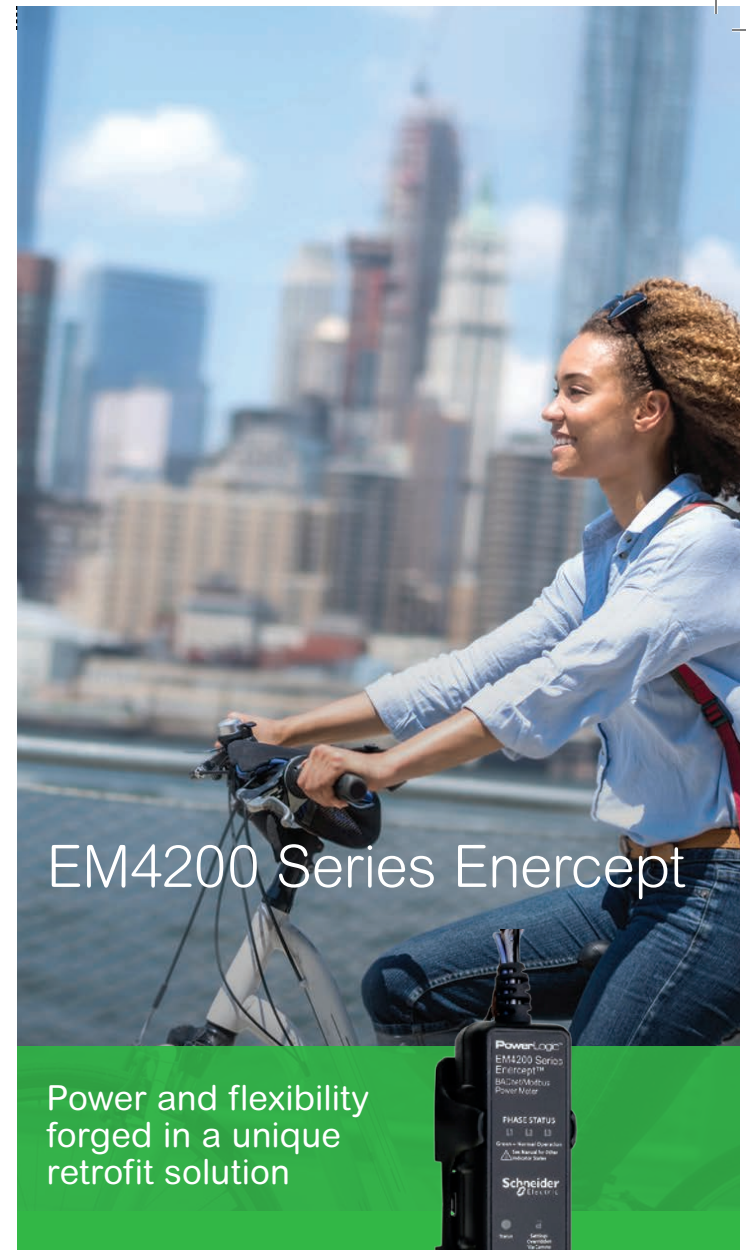
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# EM4200 Series Enercept

Power and flexibility forged in a unique retrofit solution

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Life Is On



# Retrofit

/ retrō 'fit/

1. Add (a component or accessory) to something that did not have it when manufactured.
2. EM4200 Series Enercept Series.

With 75 percent of the buildings that will be occupied in 2050 having already been built and a large number of those not meeting today's strict energy codes and standards, a metering solution that can be easily installed and integrated into existing buildings is imperative <sup>1</sup>. The EM4200 Series Enercept brings industry leading flexibility to power and energy monitoring, making it the ideal meter for retrofit applications.

<sup>[1]</sup> Pacific Standard, Energy and the Empire State, May 2010

## Maximum flexibility for retrofit applications

- Compact size for easy in-panel mounting
- Easy integration with a variety of CT form factors – split-core, solid-core, and Rope-Style Rogowski (U018), and compatibility from 5 to 5000A
- Seamless integration with StruxureWare Power Monitoring Expert (PME), StruxureWare Building Operation (SBO), and StruxureWare Building Expert (SBE)
- Configurable with or without power
- Quick connection with auto protocol, baud rate, and uni-directional/bi-directional detection
- Modbus and BACnet protocols along with uni-directional and bi-directional feature sets in one unit

From form factor to function the EM4200 Series Enercept was designed with the user in mind



1. **Versatile Mounting:** DIN or Screw Mount
2. **Phase Status:** Visual indication of meter performance - tri-colored LED's simplify troubleshooting
3. **Meter Status:** Quick troubleshooting
4. **Settings Override:** Change the phase or direction through system software with exclusive Swizzle feature
5. **CT Amperage Rotary:** Needed flexibility with CT support from 5 to 5000A
6. **Rotary Dial Setup:** Configure with or without power saving both time and labor costs
7. **Essential Protocol Support:** Modbus, BACnet, and Unit-directional and Bi-directional measurement