

I-210+ Product Information

The I-210+, singlephase basic energy meter, is designed to offer utilities high quality, solid-state measurement performance, affordability, accuracy and reliability. The I-210+ measures energy, and with the addition of a softswitch, is compatible with a suite of third-party AMR solutions. The I-210+ comes with the option of an integrated, factory installed remote disconnect switch to help utilities more efficiently address issues such as non-payments and move-in, move-outs. The meter is also offered in network forms (I-210+n) allowing utilities to more cost-effectively meter network services.

Key Product Highlights:

- Remote disconnect: The disconnect switch is fully integrated inside the I-210+. This is a factory installed option that must be specified at the time of order. To take advantage of all of the functionality this option offers, a two-way AMR device and system should be employed.

The switch is installed under a standard size cover and can be used for normal Demand Limiting, Emergency Conservation Demand Limiting, Pre-pay metering, or in Outage Management/Restoration.

- Network Applications: The I-210+ is available in 12S and 25S forms for network applications.
- Four options for Energy Accumulation (Delivered only, Delivered + Received, Delivered—Received, Received only); one option must be specified at time of order, but changes can be made after the fact via Aclara MeterMate* software.
- Additional functionality and flexibility provided by softswitches: The softswitch, which is a software application used to enable the meter with additional functionality, can be loaded onto the meter at the time of order or after the meter has been put in service to add functionality to the meter.

- Line Voltage Monitoring — This is an option that can be added via the V2 soft switch and allows the utility to directly measure and monitor quality of service provided to the customer.
- Incorporates a patented firmware algorithm to detect tamper-by-meter inversion (turning the meter upside down). This is more reliable than using mechanical devices.

I-210+ Available Softswitches:

- O:** AMR communications (AMR interface formats include quadrature pulse, PSEM, SPI Format-1 data, SPI Format-2 data)
- V₂:** Simple Voltage Event monitor in addition to a display of RMS momentary voltage on the three lower LCD digits

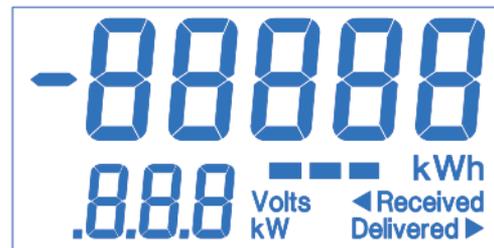


Robust MeterMate reading and programming software to support all functionality; some advanced features include:

- Change factory program defaults, including measurement detents
- Set or change sag and swell thresholds
- Plain cover without RESET or "D" ring Meter available with optional consumer acknowledge (CA) switch
- Perform a master reset to clear energy values, voltage event and power fail counters
- Obtain a meter program and data summary report
- Upgrade and downgrade AMR and voltage event monitoring capability
- Ability to set AMR communication type to (1) PSEM, (2) SPI Format 1 data, (3) SPI Format 2 Data or (4) Quad Pulse Data Output
- Meter with disconnect switch will require two-way PSEM option for remote communication.
- Meter available with optional Consumer Acknowledgement (CA) push button

I-210+ Display

Performance meets or exceeds ANSI C12.1, C12.10, C12.20, C37.90.1



Operating Range:

- Voltage: +/- 20% (or $\pm 20\%$)
- Temperature: -40°C through $+85^{\circ}\text{C}$
- Typical Starting Watts: ≤ 5.0 Watts (Form 2S 240V CL200)
- Typical Watts Loss: 0.7 Watts
- Typical Accuracy: Within +/- 0.2%

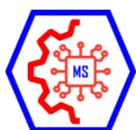
Meter specifications and related information

I210+ Meter ANSI® forms:

Form	Class	Volts	Optional Disconnect Switch
1S	100	120 & 240	Available
2S	200 & 320	240	Available – CL200 only
3S & 3CS	20	120 & 240	Not available
4S	20	240	Not available
12S	200 & 320	120 & 240	Available – CL200 only
25S	200 & 320	120 & 240	Available – CL200 only

Note: I210+ 12S and 25S Forms provide remote Connect/Disconnect but do not support Demand Limiting or Pre-payment functions

I-210+ (Basic Energy): only one standard Polycarbonate cover is needed for units with or without AMR communications.



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