

ABB GridSync™ wireless sensors

Smart Grid current and voltage sensors

Product features

CVC-110ER combined transformers:

- For outdoor use
- 15 kV, 110 kV BIL, 60 Hz
- Strike: 21.5" (546 mm)
- Creep: 28.1" (714 mm)
- Weight: 90 lbs each (41 kg)

Communications options:

- Cellular
- DNP 3.0
- 900 MHZ
- Other wireless options

Application

The ABB GridSync wireless sensors integrate combination current and voltage transformers with a complete wireless communications package that sends power line data to the utility for analysis and action. The primary applications for the GridSync sensors are for VoltVar Optimization (VVO) and Conservation Voltage Reduction (CVR) to help utilities optimize line voltages and power quality throughout the distribution grid. The GridSync wireless sensors deliver revenue class accuracy.

The GridSync wireless sensors measure the following:

- Current (0.15% accuracy)
- Voltage (0.3% accuracy)

The GridSync wireless sensors calculate the following:

- Power quality
- Four quadrant load profile data
- Load demand
- Real energy
- Reactive energy
- Voltage total harmonic distortion (THD)
- Voltage, current, and power factor (PF) angle
- Per phase current THD
- Per phase current, voltage, watts, VA, VAR, and PF
- Per phase total demand distortion
- Time-of-use (TOU) data



Technical specifications

- Compliant with FCC Rules, Part 15 and Industry Canada RSS-210
- Temperature range -40° C to +85° C
- Humidity range of 0% to 100%
- DNP 3.0 protocol for SCADA system interface
- ANSI C12.20 accuracy class 0.2
- ANSI standards compliance C12.1, C12.10, C12.18, C12.19, C12.20, C12.21
- 768 kb memory
- 49 V to 528 V AC wide voltage power supply
- Four control outputs
- Two RS232 outputs or one RS232 and one RS485 output
- Supported by Metercat® programming software

Optional features

- Utility customized wireless communications
- Utility customized test switches with specific color coding requirements
- FHSS RF 902 MHz to 928 MHz band wireless
- Advanced power quality metering technologies
- Pole mounting bracket
- Bluetooth RF adapter
- Auxiliary power supply
- Aluminum enclosure

For more information please contact:

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