Verdigris EV1 for Commercial Buildings

1. Our sensors monitor any electricity main, distribution panel feed, or circuit breaker in any building.
2. Real-time Energy Data Gateway through WiFi to the cloud (with optional on-premises server or BMS integration).
3. Our mobile app provides automatic email alerts to predict and notify when problems happen.
4. Our web dashboard provides a 24/7 analytics tool to manage your systems.
5. Automated weekly and monthly reports deliver insight and measure progress.

Breaker Panel Types Served

The Verdigris EV1 works with a near limitless range of breaker boxes, sub-panels, and electricity mains serving any building type. The system hardware can be mounted externally on the outside of breaker panels, or on a nearby wall or junction box.

- Panel and voltage types (up to 42 breakers/panel):
  - split-phase 100-277V
  - three-phase 120/208V
  - three-phase 240/416V wye
  - three-phase 277/480V wye
  - three-phase 277/480V delta*
- Frequency: 50-60 Hz
- Current measurement range (Amperage): 1A - 10,000A

* Depending on your physical space, three-phase delta panels may require an additional accessory. For more info see http://verdigris.co/faq or contact your account representative.

Data Available to You

Your high resolution data is transmitted wirelessly through WiFi, stored on the cloud, and is available 24/7 from any desktop, laptop, tablet, or smartphone web browser. You can also download a csv of your data or connect to our API at anytime.

- Precision: 10mW
- Sampling frequency: up to 7.68 kHz
- Data access via API: unlimited
- Historical data availability on the web:
  - 1-minutely: indefinite
  - 15-minutely: indefinite
  - 1-hourly: indefinite
  - Daily: indefinite

www.verdigris.co  solutions@verdigris.co
1-844-VERDIGRIS (1-844-837-3447)
Energy Data Gateway

- Physical Dimensions: 10.25 x 3.5 x 3.5 inch [260 x 88 x 88 mm]
- Voltage Range: 100-277 VAC CAT III*
- Frequency Range: 50-60Hz
- Current Rating: 300mA

* CAT III-rated instruments are primarily used on fixed installations, distribution boards, and circuit breakers and can withstand the specified voltage range

CTs and Verdigris High Current CT Interface Modules

Verdigris offers two types of CTs: (1) Verdigris Smart CTs for sensing individual circuit breakers (< 60A) in tight spaces and (2) High Current CTs or Rogowski Coils for larger amperage circuits. High Current CTs integrate to the data chain using the Generic Interface Module (GIM) adapter.

<table>
<thead>
<tr>
<th></th>
<th>Verdigris Smart CT</th>
<th>Large CT</th>
<th>Verdigris High Current CT Interface Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Circuit Ampacities</td>
<td>60A per circuit</td>
<td>Up to 10,000A per circuit (custom sizes available)</td>
<td></td>
</tr>
<tr>
<td>Sensor Accuracy</td>
<td>±2%</td>
<td>± 0.5% error for an individual circuit</td>
<td></td>
</tr>
<tr>
<td>CT Accuracy Range (% of rated current)</td>
<td>1%-100%</td>
<td>10%-120%</td>
<td>0%-100%</td>
</tr>
<tr>
<td>Physical Dimensions</td>
<td>2.2 x 1 x 1 inch [56 x 24 x 25 mm]</td>
<td>Varies by Amperage</td>
<td>2.4 x 2.4 x 1 inch [60 x 60 x 25 mm]</td>
</tr>
<tr>
<td>Temperature</td>
<td>0-40°C</td>
<td>Varies by Amperage</td>
<td></td>
</tr>
<tr>
<td>Max Conductor Size</td>
<td>4 AWG [21.1mm²]</td>
<td>Varies by Amperage</td>
<td></td>
</tr>
<tr>
<td>Max Wire Size</td>
<td>Including insulator 58.6mm²</td>
<td>Varies by Amperage</td>
<td></td>
</tr>
</tbody>
</table>

Data Transmission

- WiFi: 802.11 b/g/n
- Local Networks: BACnet/IP, Modbus/TCP

Safety Certificates

- UL 61010
- IEC 61010-1:2010
- CAN/CSA-C22.2 NO. 61010-1-12
- CAN/CSA-C22.2 NO. 61010-2-030-12

Wireless

- EN 61326-1:2013
- CISPR 11:2009+A1:2010
- FCC Part 15 Subpart B:2015
- ICES-003:2014

Environmental

- RoHS
- WEEE

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