The BAU sensors are non-invasive and dual purpose. They provide both a power frequency and high frequency signal to monitor the bushing insulation as well as partial discharges that may be occurring in bushings or windings. This eliminates the need to purchase a unique sensor for each application.

The BAU bushing sensors have over 50 custom adaptors to choose from for various test tap styles. BAU sensors have three layers of protection built-in with a safety factor of 2.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAU-xx*</td>
<td>A bushing sensor with (25 m / 82 ft) of coaxial cable.</td>
</tr>
<tr>
<td>BAU-xx*-A</td>
<td>A bushing sensor with pre-amplifier for use with a Rogowski Coil and 25 m / 82 ft of coaxial cable for the bushing Pf/capacitance sensor.</td>
</tr>
<tr>
<td>BAU-HVCT</td>
<td>HVCT sensor with flying leads and a field wiring kit. Coaxial cable not included.</td>
</tr>
</tbody>
</table>

* xx = Dynamic ratings will determine the exact part number after reviewing the drawing of the bushing. One sensor is supplied per part number. Sensors are typically required in sets of 3. BAU test tap required.
APPLICATIONS

- Power Transformers
- Iso-Phase Bus
- HVCTs

BENEFITS

- 50+ custom adapters to suit various test tap styles.
- Each sensor provides signals for capacitance, power-factor and PD measurements.
- Three levels of protection: open circuit / voltage limiter, surge protection, and fail safe circuitry.
- Easy removal for offline testing.

Easy Removal for Offline Testing

BAU Sensors are installed in the test tap of the bushing. If a test tap isn’t available, the voltage tap may be used. BAU sensors are designed with three main sections: body, adaptor, and contact. In all cases, the body of the sensor is the same. Only the adapter head and contact change to accommodate the design of the bushing tap.

The main body of the sensor can be easily detached from the adaptor by the removal of three screws. Once the main body is disconnected, the test tap of the bushing can be accessed directly or the adaptor can be removed from the bushing to provide additional room when needed.

Dual Purpose Sensor: The BAU sensor provides both a power frequency and high frequency signal to Dynamic Ratings equipment.

3 Levels of Built-In Protection

1. Open Circuit / Voltage Limiter - There are four voltage limiters used in the sensor. A current balance circuit is used to distribute the stress equally. This protection circuit will limit the output voltage to less than 23 volts AC if the wiring or the monitoring systems loses the ground connection. The circuit has a safety factor of 2 built in. Dynamic Ratings offers the lowest open circuit protection in the industry.

2. Surge Protection - It is necessary to provide surge protection for switching and system transients. Two surge protection circuits exist for this purpose. The circuits have a safety factor of 2 built in.

3. Fail Safe Circuit - A fail safe circuit is included that will automatically ground the tap inside the body of the sensor should the open circuit and / or surge protection fails.

High Voltage Current Transformer Sensors

The BAU-HVCT is a sensor designed for use on high-voltage current transformers (HVCT) to monitor the power factor and the capacitance of a set of three HVCTs. It is a compact, accurate sensor commonly installed in series with the grounding wire in the CT junction box. It can provide partial discharge signals to Dynamic Ratings bushing and / or partial discharge monitors or analyzers.