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BROCHURE

BAU-Plus

Dynamic Ratings

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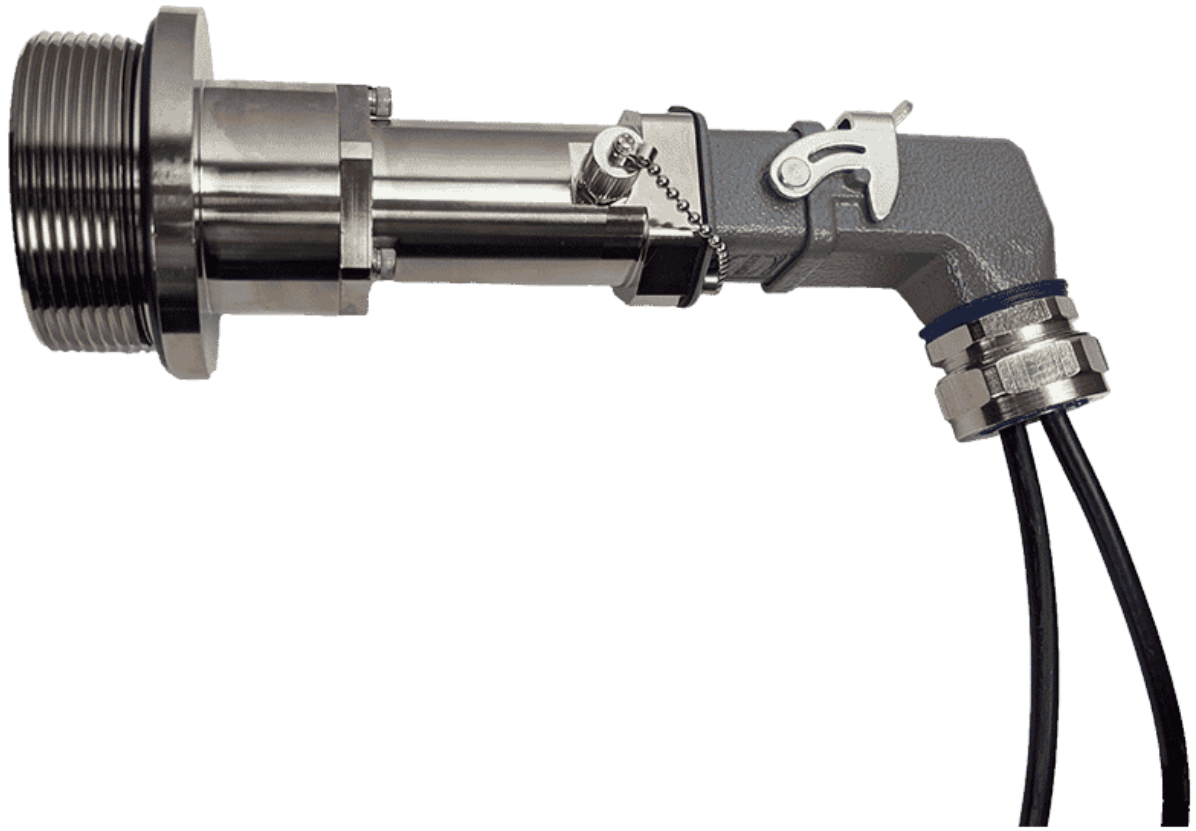

Bushing Adapting Unit

BAU+ Sensor

Designed To Meet Your Needs

The Bushing Adapter Unit (BAU+) sensor has a robust, environmentally hardened design rated to IP-67 specifications. The BAU+ serves multiple purposes. It provides bushing signals for bushing insulation characteristics, partial discharge in bushings and transformers, and additional circuitry for noise filtering using Rogowski coils. This eliminates the need to purchase a unique sensor for each application. BAU+ sensors are ideally suited for use in power transformers, iso-phase bus ducts, and HVCTs. For over 15 years, Dynamic Ratings has designed more than 50 adapters and has flexibility to meet your bushing adapter needs.

Benefits

- Each sensor provides signals for imbalance, bushing leakage current, capacitance, power-factor and partial discharge measurements.
- Three levels of protection: open circuit / voltage limiter, surge protection, and fail safe circuitry.
- Easy removal for offline testing.
- 50+ custom adapters to suit various test tap styles.
- Provides Rogowski coil amplifier and cable for aid in partial discharge noise filtering.
- 50 ohm coax cables provide longer distances of accurate signal transmission.

Three Levels of Built-in Protection

1. **Open Circuit / Voltage Limiter** - Six voltage limiters provide open circuit protection. A current balance circuit is used to distribute the stress equally between limiters. The protection circuit limits the output voltage to less than 23 Volts peak if connection to the monitoring system is lost. Dynamic Ratings offers the lowest open circuit protection in the industry.
2. **Surge Protection** - Surge protection provides safety for equipment and personnel. Two surge protection circuits provide protection for switching and system transients.
3. **Fail Safe Circuit** - A fail safe circuit automatically grounds the tap inside the body of the sensor should the open circuit and / or surge protection fail.

Retrofit Options

Dynamic Ratings' bushing sensors are now available with a durable armored cable option, designed for easy retrofit installation. The armored cable eliminates the need for conduit, simplifying installation while maintaining a clean, professional appearance. Its rugged, weather-resistant construction ensures long-term reliability and protection in harsh substation environments.

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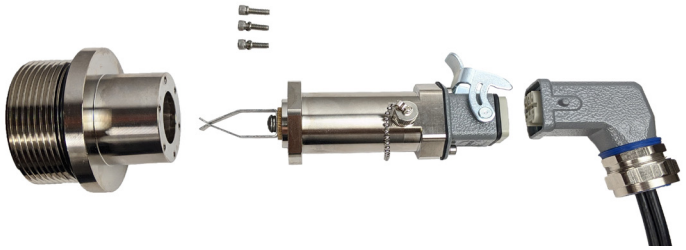
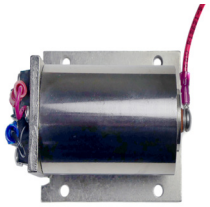
Easy Removal and Re-Installation For Offline Testing

BAU+ Sensors are installed in the test tap of the bushing. If a test tap isn't available, the voltage tap may be used. The BAU+ Sensors are designed with three sections: body, adaptor and cable connector. The body of the sensor can be easily detached from the adapter by the removal of three screws. Once the body is disconnected, the test tap of the bushing can be accessed directly or the adapter can be removed from the bushing to provide additional room when needed. The adapter head and contact change to accommodate the design of the bushing tap, the body and cable connector stay the same.



High voltage current Transformer Sensors

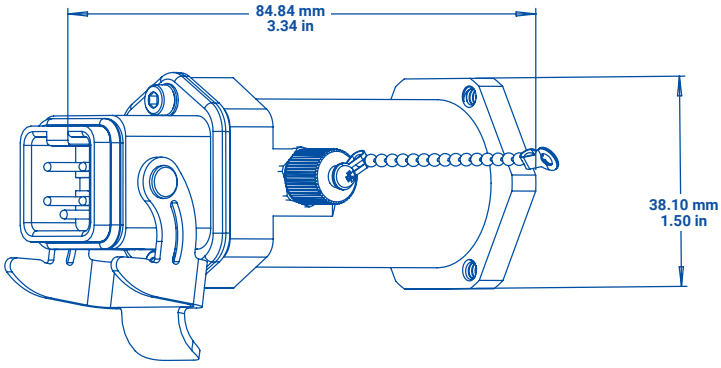


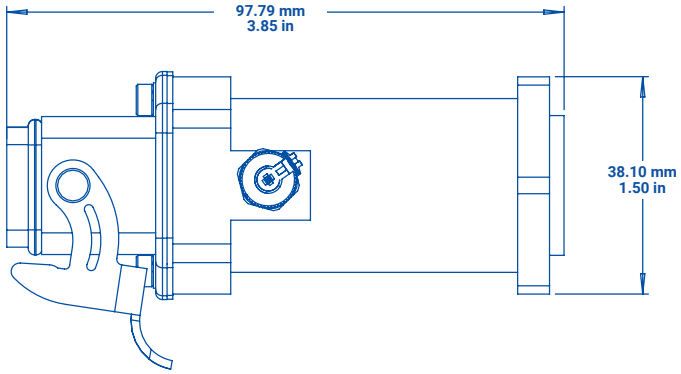
The BAU-HVCT is a sensor designed for use on high-voltage current transformers (HVCT) to monitor the power factor and the capacitance of a set of three HVCTs. It is a compact, accurate sensor commonly installed in series with the grounding wire in the CT junction box. It can provide partial discharge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

How to Order

Part Number	Description
BAUplus-xx*	A bushing sensor with (25 m / 82 ft) of coaxial cable and right angle connector.**
BAUplus-xx*-A	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.
BAU-HVCT	HVCT sensor with flying leads and a field wiring kit. Coaxial cable not included.
SS_BAUplus-xx	A bushing sensor with (25 m / 82 ft) of armored coaxial cable and right angle connector.
SS_BAUplus-xx-A	A bushing sensor with pre-amplifier for use with a Rogowski Coil. Includes (2) (25 m / 82 ft) of armored coaxial cable.

**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. Bushing test tap required.*
***Straight body connector available for bushings without a turret.*





DYNAMIC RATINGS

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