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The key difference is that the Rogowski coil has an air core as opposed to the current transformer, which relies on a high-permeability steel core to magnetically couple with a secondary winding. The air core design has a lower insertion impedance, which enables a faster signal response and a very linear signal voltage.

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CTRC Rogowski coils offer excellent linearity, low phase angle error, with window diameters of 3.1, 4.5, 7.5, or 12 inches, with rated currents from 250 to 6000 amps. Easier AC Current Measurement. The CTRC Rogowski coil current transformers are accurate, flexible, rope-like current sensors that can be connected around conductors. CTRC Rogowski Coil - Continental Control Systems, LLC

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How to design a coil for a specific inductance that you need, including how to calculate the inductance and where to find an online inductance calculator. This goes through all the parameters

...How to Design a Coil for Specific Inductance

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