

Current Transformers

RōCoil™

Flexible Current Transformer with a 5A to 5000A current range

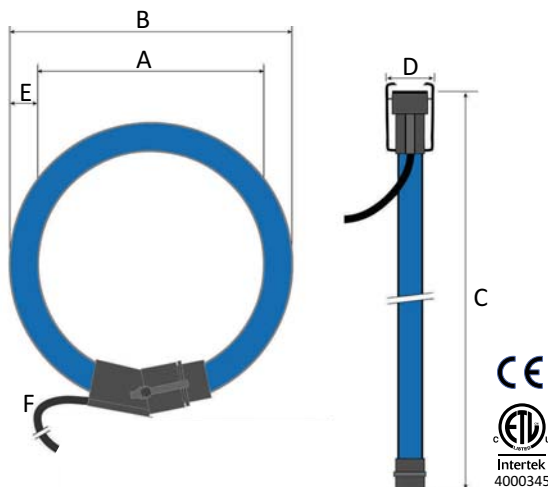


The RoCoil™ Current Transformers have been designed for accurate non-intrusive measurement of AC current, pulsed DC or distorted waveforms. This type of sensor may be used to measure AC current over a wide dynamic range and from 40Hz to 5 kHz.

Note: The RoCoil™ may require use of integrator / amplifier. See also RoCoil mV™.

KEY SPECIFICATIONS

Four Lengths	40 cm (16"), 60 cm (24"), 90 cm (36"), 183 cm (72")
Window Size	13 cm (5"), 19 cm (7"), 26 cm (10"), 58 cm (23")
Output Signal (di/dt)	131 mVAC/1000A @ 60 Hz 110 mVAC/1000A @ 50 Hz
Current Range	5 - 5000A AC*
Accuracy	< 1%**



ELECTRICAL


All accuracies specified at 20°C (±2°C) with RōCoil™ centered on conductor.

Output Signal	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz
Wire Colors	White = (+) positive Brown = (-) negative Bare wire = shield
Phasing	Arrow Points Towards Load
Phase Shift	< 1° at 50/60 Hz
Frequency Range	40 Hz to 5 kHz
Useful Current Range	5 - 5000A AC*
Linearity	± 0.2%
Conductor Position Sensitivity	± 2% maximum
Influence of External Field	± 1.5% maximum
Temperature Sensitivity	0.07% per °C

MECHANICAL

Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Coupling Materials	Polypropylene UL 94 V-0 rated
Shielding	85% transducer, 100% output lead
Working Temp	-20 °C to +80 °C (-4° to +176 °F)

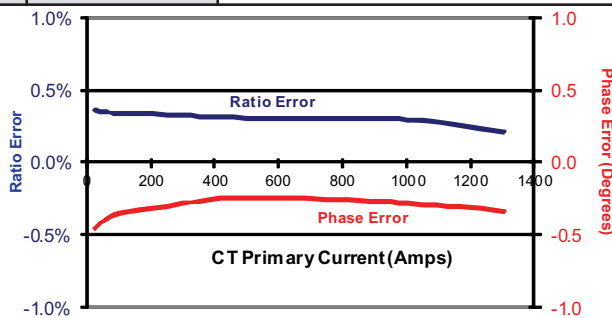
SAFETY

Working Voltage	1000 Vrms maximum
Dielectric Strength	7400 VAC around coil 1000 VAC rated leads
Certifications	  Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010

*Depending on meter compatibility. RoCoil CTs ETL Rated to 6000A AC. ELITEpro SP (v. .212 or newer firmware) and PowerScout™ 3 (v. 3.16 or newer firmware) rated for 5-5000A. Meters with earlier firmware versions rated from 50-5000A AC. PowerScout™ 18 rated for 50-3500A.

**Accuracy below 20A rated approximately at 1.5% +/- 0.5A.

DIMENSIONS		R16 40 cm (16")	R24 60 cm (24")	R36 90 cm (36")	R72 183 cm (72")
A	Window Size	13 cm (5")	19 cm (7")	26 cm (10")	56 cm (22")
B	Transformer Coil O.D.	15 cm (6")	21 cm (8")	29 cm (11")	58 cm (23")
C	Transformer Length	40 cm (16")	60 cm (24")	90 cm (36")	180 cm (72")
D	Locking Connector O.D.	3.6 cm (1.4")			
E	Transformer Coil Diameter	1.5 cm (0.6")			
F	Wire Lead Total Length	2m (80")			



CT testing performed with 16"RoCoil. Conductor used filled 90% of RoCoil window.

RōCoil™ PART NUMBERS

40 cm (16") RōCoil™	CT-R16-1310
60 cm (24") RōCoil™	CT-R24-1310
90 cm (36") RōCoil™	CT-R36-1310
183 cm (72") RōCoil™	CT-R72-1310

What's New!



For more information on this product, please contact:
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