

The DENT RōCoil™Current Transformers have been designed for accurate non-intrusive measurement of AC current, pulsed DC or distorted waveforms where conventional rigid core CTs are unsuitable. This type of sensor may be used to measure AC current over a wide dynamic range and from 20 Hz to 5 kHz. Note: Some applications may require use of integrator/amplifier. See also RōCoil mV™.

KEY SPECIFICATIONS	
Four Lengths	40 cm (16"), 60 cm (24"), 90 cm (35"), 120 cm (47")
Window Size	11.5 cm (4.5"), 17.9 cm (7.0"), 27.5 cm (10.8"), 37 cm (14.6")
Output Signal ( <i>di/dt</i> )	131 mVAC/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz
Current Range	5 - 5000A AC*
Accuracy (typical)	< 0.6%**

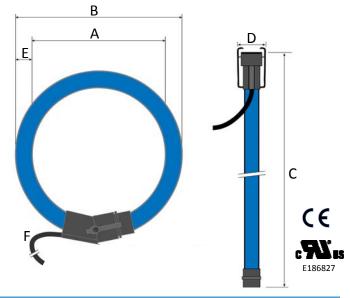
All accuracies specified at 20°C ( $\pm$ 2°C) with RōCoil $^{\intercal}$ centered on conductor.		
Output Signal	131 mV/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz	
Wire Colors	White = (+) positive Brown = (-) negative Bare wire = shield	
Phasing	Arrow Points Towards Load	
Phase Shift	< 0.2° at 50/60 Hz	
Frequency Range	20 Hz to 5 kHz*	
Useful Current Range	5 - 5000A AC*	
Linearity	± 0.2%	
Temperature Sensitivity	0.07% per °C	

MECHANICAL	
Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Coupling Materials	PA6 UL 94 V-0 rated
Shielding	100% transducer, 100% output lead
Working Temp	-20 °C to +70 °C (-4° to +158 °F)

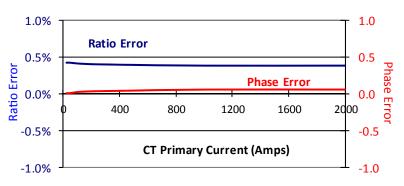
SAFETY		
Working Voltage		1000 Vrms maximum
Dielectric Strength		7400 VAC around coil 1000 VAC rated leads
Certifications	( <b>F 18</b> 6827	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010

<sup>\*</sup>Depending on meter compatibility.  $R\bar{o}$ Coil CTs UL Rated to 100KA AC. ELITEpro SP/XC (v.212 or newer firmware) and PowerScout  $^{\mathbb{N}}$  3 and 24 (v. 3.16 or newer firmware) rated for 5-5000A. Meters with earlier firmware versions rated from 50-5000A AC. PowerScout  $^{\mathbb{N}}$  18 rated for 50-3500A.





	DIMENSIONS	R16 40 cm (16")	<b>R24</b> 60 cm (24")	<b>R36</b> 90 cm (35")	<b>R47</b> 120 cm (47")
Α	Window Size	11.5 cm (4.5")	17.9 cm (7.0")	27.5 cm (10.8")	37 cm (14.6")
В	Transformer Coil O.D.	13.9 cm (5.5")	20.3 cm (8.0")	29.9 cm (11.8")	39.4 cm (15.5")
C	Transformer Length	40 cm (15.8")	60 cm (23.6")	90 cm (35.4")	120 cm (47.2")
D	Locking Connector O.D.	2.0 cm (0.8")			
Ε	Transformer Coil Diameter	1.2 cm (0.5")			
F	Wire Lead Total Length	2 m (80")			



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

RōCoil™ PART NUMBERS		
40 cm (16") RōCoil™	CT-R16-A4-U	
60 cm (24") RōCoil™	CT-R24-A4-U	
90 cm (35") RōCoil™	CT-R36-A4-U	
120 cm (47") RōCoil™	CT-R47-A4-U	

## **CONTACT US**

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An ISO 9001:2008 Certified Company

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<sup>\*\*</sup>Installed using best practices with conductor centered in the CT window and ensure any external conductors are a minimum distance of > 2X the diameter of the RōCoil. Accuracy below 20A rated at 1.5% +/- 0.5A when used with DENT ELITEpro/PowerScout meters. RōCoil have been 100% verified to meet the C57.13-2008 Class 1.2 Standard.