RoCoilTM Flexible CTs

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[™].

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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%**

ELECTRICAL

All accuracies specified at 20°C (\pm 2°C) with RōCoilTM 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	(€ сЯХ ия E186827	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010		

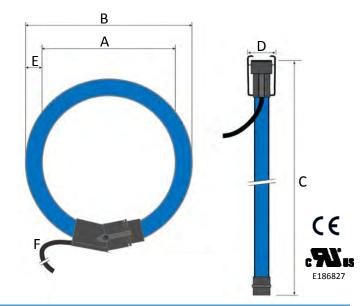
*Depending on meter compatibility. RoCoil CTs UL Rated to 100KA AC.

ELITEpro SP/XC (v.212 or newer firmware) and PowerScout^m 3 and 24 (v. 3.16 or newer firmware) rated for 5-5000A. Meters with earlier firmware versions rated from 50-5000A AC. PowerScout^m 18 rated for 50-3500A.

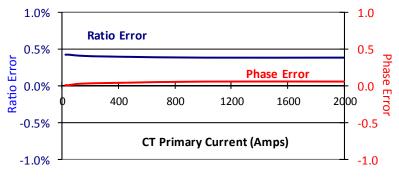
**Installed using best practices with conductor centered in the CT window and ensure any external conductors are a minimum distance of > 2X the diameter of the RōCoil. Accuracy below 20A rated at 1.5% +/- 0.5A when used with DENT ELITEpro/PowerScout meters. RōCoil have been 100% verified to meet the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

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	DIMENSIONS	R16 40 cm (16")	R24 60 cm (24")	R36 90 cm (35")	R47 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")	
B	Transformer Coil O.D.	13.9 cm (5.5")	20.3 cm (8.0")	29.9 cm (11.8")	39.4 cm (15.5")	
С	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″)				
E	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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