## **RōCOIL SERIES**

## **ROGOWSKI COIL FLEXIBLE CURRENT SENSORS**

The DENT RōCoil Current Sensors, known as "Flexible Ropes", have been designed for accurate, non-intrusive measurement of AC current, where conventional rigid core sensors are unsuitable. This type of sensor may be used to measure AC current over a wide dynamic range. Note: Some applications may require use of integrator/amplifier.

KEY SPECIFICATIONS				
Length Options	16" (40cm)	24" (60cm)	36" (90cm)	47" (120cm)
Current Range	5-1800A		5-4000A	
Output	131 mVAC/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz			
Accuracy (typical)	< 0.6%*			
Accuracy Class	Class 0.5-A1 according to IEC 61869-10			

ELECTRICAL				
All accuracies specified at 20°C (±2°C) with RōCoil <sup>™</sup> centered on conductor.				
Output Signal	131 mV/1000A @ 60 Hz 109.2 mV/1000A @ 50 Hz			
Wire Colors	White = (+) positive Black = (-) negative Bare wire = shield			
Phase Shift	< 0.2° at 50/60 Hz			
Frequency Range	50/60 Hz			
Linearity	± 0.2%			
Temperature Sensitivity	0.07% per °C			

MECHANICAL	
Coil Materials	Blue thermoplastic rubber, flame retardant UL 94 V-0 rated
Shielding	100% transducer, 100% output lead
Operating Temp	-35°C to +75 °C (-31° to +167 °F) up to 1800A -35°C to +60 °C (-31° to +140 °F) 1800A to 4000A

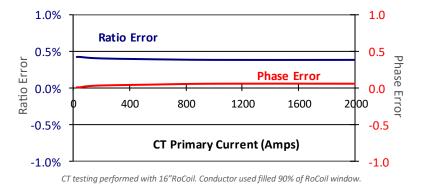
SAFETY	
Working Voltage	600V CATIV: 1000V CATIII
Dielectric Strength	7400 VAC around coil 1000 VAC rated leads
Certifications  RoHS  CULUS LISTED E477005	ANSI/CAN/UL 2808 CSA C22.2 No. 61010-1-12 IEC 61010-2-032 IEC 61010-1 Ed3

<sup>\*</sup>Installed using best practices with conductor centered in the CT window and ensure any external  $conductors\ are\ a\ minimum\ distance\ of > 2X\ the\ diameter\ of\ the\ R\bar{o}Coil.\ Accuracy\ below\ 20A\ rated$ at 1.5% +/- 0.5A when used with DENT ELITEpro/PowerScout meters.





DIMENSIONS	CTRCFX Model			
DIMILIASIONS	16"	24"	36"	47"
Window Size	12.7 cm (5.0")	19.1 cm (7.5")	28.7 cm (11.3")	38.2 cm (15.1")
Sensor Length	40 cm (15.8")	60 cm (23.6")	90 cm (35.4")	120 cm (47.2")
Locking Connector O.D.	3.5 cm (1.38")			
Sensor Coil Diameter	8.3mm (0.33")			
Wire Lead Total Length	3 m (118") Standard (See Part Numbers below for other lengths.)			



## **RōCoil PART NUMBERS**

	3 M Leads	7 M Leads	15 M Leads†
40cm (16") RōCoil	CTRCFX16L1800A3MSTV1	CTRCFX16L1800A7MSTV1	CTRCFX16L1800A15MSTV1
60cm (24") RōCoil	CTRCFX24L4000A3MSTV1	CTRCFX24L4000A7MSTV1	CTRCFX24L4000A15MSTV1
90cm (36") RōCoil	CTRCFX36L4000A3MSTV1	CTRCFX36L4000A7MSTV1	CTRCFX36L4000A15MSTV1
120cm (47") RōCoil	CTRCFX47L4000A3MSTV1	N/A	N/A

