

RōCoil mV™

MilliVolt Output Flex CTs

PRELIMINARY

The DENT RōCoil mV™ Flexible Current Transformers have been designed for accurate measurement of AC current and provide a safe millivolt output.

KEY SPECIFICATIONS	
Three Lengths	40 cm (16"), 60 cm (24"), 90 cm (36")
Window Size	13 cm (5"), 19 cm (7"), 26 cm (10")
Output Signal	333 mV AC at rated current Max output 1,660 mVAC
Current Range*	20-5000A (16") 40-10,000A (24") 60-15,000A (36") 120-30,000A (36" 6KA)
Accuracy	< 1% typical at 2% to 500% of rated current

*Depending on meter compatibility. See ELITEpro™ and PowerScout™ specifications for details.

ELECTRICAL

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

Output Signal	(16") 333 mV @ 1000A	1V @ 3330A
	(24") 333 mV @ 2000A	1V @ 6660A
	(36") 333 mV @ 3000A	1V @ 10,000A
	(36") 333 mV @ 6000A	1V @ 20,000A

Max Output	1.66VAC
Power Requirement	5-24 VDC, 20 mA Maximum
Wire Color	Black = Power (-) Red = Power (+) White = Signal (+) Green = Signal (-)
Phasing	Arrow Points Towards Load
Phase Shift	< 1° at rated current
Frequency Range	45-600 Hz
Linearity	± 0.2%
Conductor Position Sensitivity	± 2% maximum
Influence of External Field	± 1.5% maximum
Temperature Sensitivity	0.07% per °C

MECHANICAL

Coil Material	Blue thermoplastic rubber, flame retardant UL 94 V-O rated
Coupling Materials	Black thermoplastic rubber + Polypropylene UL 94 V-O rated
Shielding	85% transducer, 100% output lead
Working Temp	-20 °C to +60 °C (-4° to +140 °F)

SAFETY

Working Voltage	600 Vrms maximum
Dielectric Strength	7400 VAC around coil 600 VAC rated leads
Oversoltage Category	Installation Category III (IEC 1010-1)

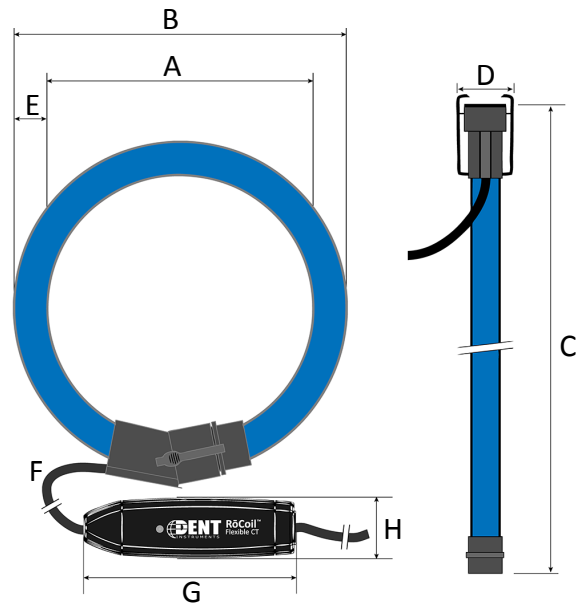
RōCoil mV™ PART NUMBERS*

16" RōCoil mV™	CT-RMV-16-1000	333 mV @ 1000A
24" RōCoil mV™	CT-RMV-24-2000	333 mV @ 2000A
36" RōCoil mV™	CT-RMV-36-3000	333 mV @ 3000A
36" RōCoil mV™	CT-RMV-36-6000	333 mV @ 6000A

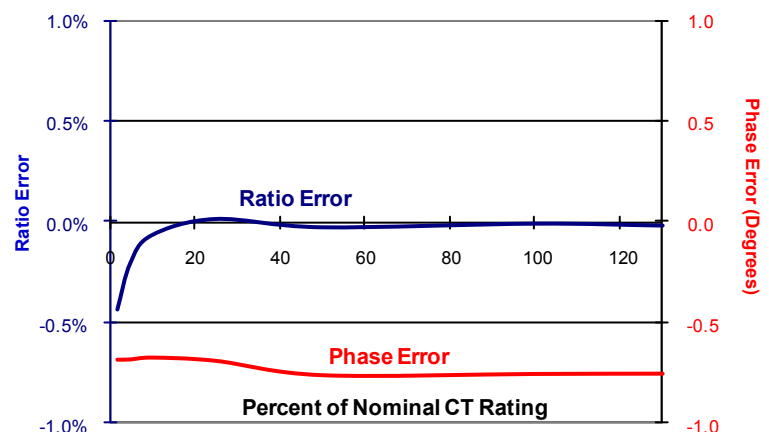
*Other Sizes, currents, and outputs are available. Please contact the factory for details.

AVAILABLE OPTIONS

*RC-CONN	Power Cable from Line-Powered ELITEpro™ for powering up to 4 CTs
*RC-US-XFMR	Wall Transformer plus Power Cable capable of powering up to 4 CTs (US/North America)



DIMENSIONS		40 cm (16")	60 cm (24")	90 cm (36")
A	Window Size	13 cm (5")	19 cm (7")	26 cm (10")
B	Transformer Coil O.D.	15 cm (6")	21 cm (8")	29 cm (11")
C	Transformer Length	40 cm (16")	60 cm (24")	90 cm (36")
D	Locking Connector O.D.		3.6 cm (1.4")	
E	Transformer Coil Diameter		1.5 cm (0.6")	
F	Wire Lead Total Length		2 M (80")	
G	Length of mV Module		9.5 cm (3.8")	
H	Width of mV Module		3.2 cm (1.3")	



AUTHORIZED DISTRIBUTOR

Optimum Energy Products Ltd.

Website: www.PowerMeterStore.com

Email: info@powermeterstore.com

Toll free: 1.877.766.5412