

RōCoil mV™

MilliVolt Output Flex CTs

The DENT RōCoil mV™ Flexible Current Sensors have been designed for accurate measurement of AC current with a safe, millivolt output.



KEY SPECIFICATIONS

3 Lengths	40 cm (16"), 60 cm (24"), 90 cm (36")
3 Window Sizes	11.5 cm (4.5"), 17.9 cm (7"), 27.5 cm (10.8")
3 Current Ranges*	16": 1000A, 10—1300A AC 24": 2000A, 30—2600A AC 36": 3000A, 30—3900A AC
Output Signal	333 mV AC at rated current Max output 1,665 mVAC
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 → 1665 mV @ 5000A max current (24") 333 mV @ 2000A → 999 mV @ 6000A max current (36") 333 mV @ 3000A → 666 mV @ 6000A max current
Max Output	1.66VAC
Power Requirement	5-24 VDC, 30 mA Maximum
Wire Color	Red = Power (+) Black = 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-0 rated
Coupling Materials	PA6 UL 94 V-0 rated
Case Material	ABS UL 94 V-0 rated
Shielding	100% 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
Certifications	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010



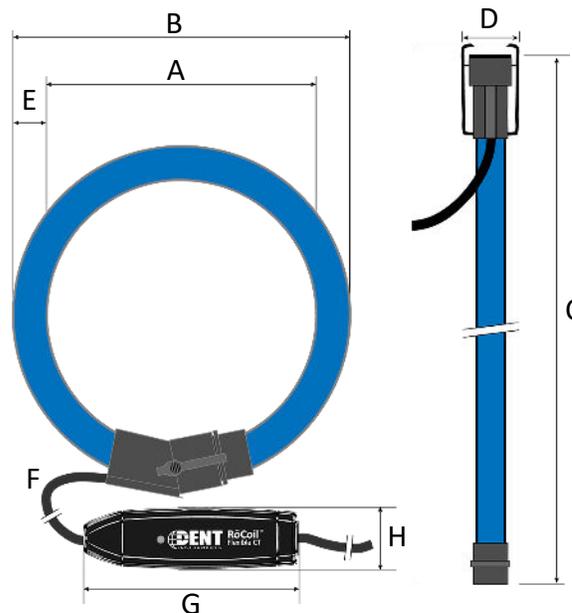
RōCoil mV™ PART NUMBERS*

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

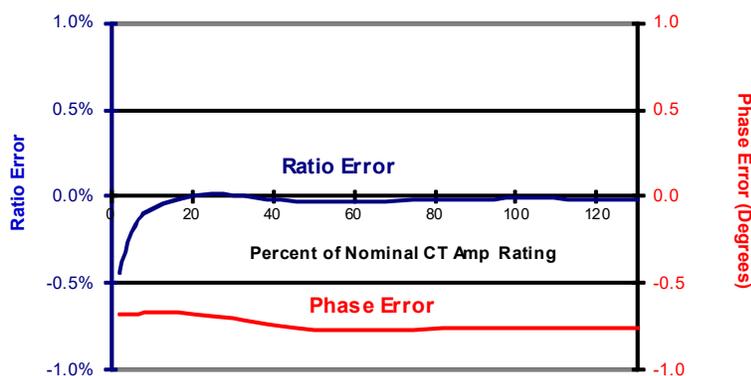
*Other Sizes, currents, and outputs are available. Please contact the factory for details.

AVAILABLE OPTIONS

*PX-XFMR-EXC Wall Transformer plus Power Cable capable of powering up to 4 CTs (US/International)



DIMENSIONS	RMV-16	RMV-24	RMV-36
A Window Size	11.5 cm (4.5")	17.9 cm (7")	27.5 cm (10.8")
B Sensor Coil O.D.	13.9 cm (5.5")	20.3 cm (8")	29.9 cm (11.8")
C Sensor Length	40 cm (15.8")	60 cm (23.6")	90 cm (35.4")
D Locking Connector O.D.		2.0 cm (0.78")	
E Sensor Coil Diameter		1.2 cm (0.47")	
F Wire Lead Total Length		4.5 m (176")	
G Length of mV Module		9.5 cm (3.8")	
H Width of mV Module		3.2 cm (1.3")	



CONTACT US

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