

RōCoil mV™

MilliVolt Output Flex CTs

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



KEY SPECIFICATIONS

4 Lengths	40 cm (16"), 60 cm (24"), 90 cm (36"), 180 cm (72")
4 Window Sizes	13 cm (5"), 19 cm (7"), 26 cm (10"), 52 cm (20")
4 Current Ranges*	16", 1000A, 50A Min 24", 2000A, 50A Min 36", 3000A, 60A Min 72", 6000A, 120A Min
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 (24") 333 mV @ 2000A (36") 333 mV @ 3000A (72") 333 mV @ 6000A	1665 mV @ 5000A 999 mV @ 6000A 666 mV @ 6000A
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	Polypropylene UL 94 V-0 rated
Case Material	ABS UL 94 V-0 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
Certifications	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010



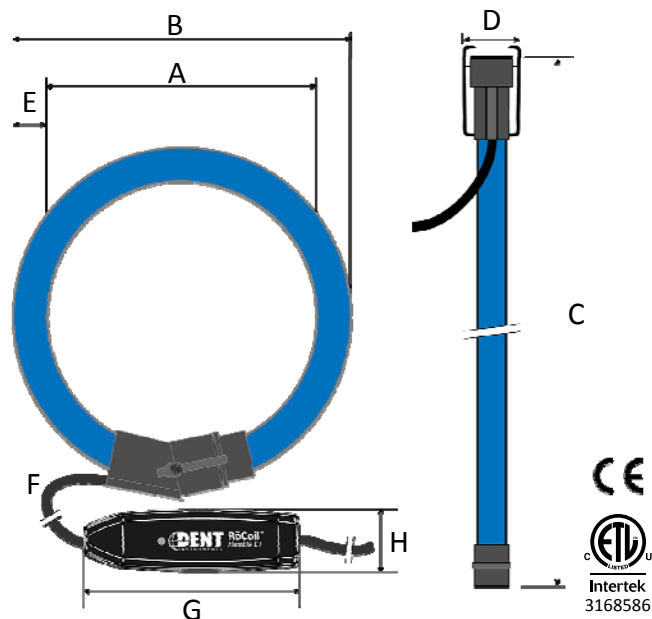
RōCoil mV™ PART NUMBERS*

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
72" RōCoil mV™	CT-RMV-72-6000	333 mV @ 6000A

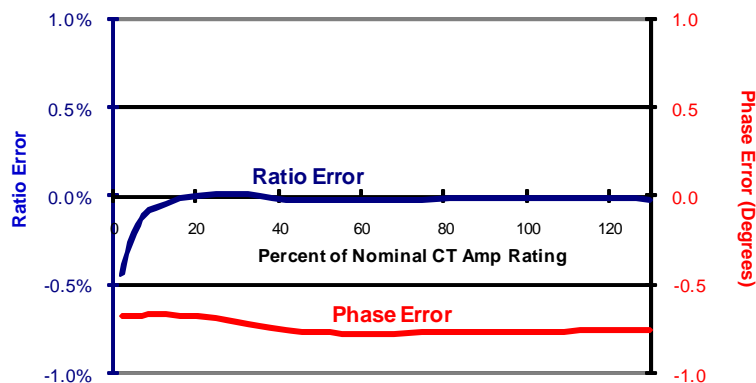
*Other Sizes, currents, and outputs are available. Please contact the factory for details.

AVAILABLE OPTIONS

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



DIMENSIONS		RMV-16	RMV-24	RMV-36	RMV-72
A	Window Size	13 cm (5")	19 cm (7")	26 cm (10")	56 cm (22")
B	Transformer Coil O.D.	15 cm (6")	21 cm (8")	29 cm (11")	58 cm (23")
C	Transformer Length	40 cm (16")	60 cm (24")	90 cm (36")	180 cm (72")
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")	



CONTACT US

DENT Instruments, Inc.
Energy & Power Measurement Solutions

925 SW EMKAY DRIVE
BEND, OREGON 97702 USA
541.388.4774 | 800.388.0770
WWW.DENTINSTRUMENTS.COM