

# POWERSCOUT™ TRANSFORMERS

PowerScout meters can be equipped with a wide selection of current transformers. Choose from compact and economical Split-Core CTs or the versatile Rogowski Flex CTs. Each type offers its own particular advantages depending on your application. DENT CTs are interchangeable to meet your varying project requirements. All DENT CTs are internally shunted and carry UL or ETL certification and CE Mark for intrinsically safe operation on energized conductors.



**www.esis.com.au**  
Ph 02 9481 7420  
Fax 02 9481 7267  
esis.enq@esis.com.au

	<b>MINI HINGED</b> HSC-020, -050 	<b>MIDI HINGED</b> HMC-100, -200 	<b>HIGH ACCURACY</b> SHS-0005, -0015 	<b>SMALL SPLIT CORE</b> SCS-0050, -0100 	<b>MED SPLIT CORE</b> SCM-0100, -0200, -0400, -0600 	<b>LARGE SPLIT CORE</b> SCL-0600, -1000 	<b>ROCOIL</b> R16, R24, R36, R47 	<b>ROCOIL</b> R72 
<b>KEY SPECIFICATIONS</b>								
<b>WINDOW SIZE</b>	1 cm (0.4")	2.5 cm (1.0")	1.0 cm (0.4")	1.9 cm (.75")	3.2 cm (1.25")	5.1 cm (2.0")	16": 11.5 cm (4.5") 24": 17.9 cm (7.0") 36": 27.5 cm (10.8") 47": 37.0 cm (14.6")	72": 56.0 cm (22.0")
<b>OUTPUT SIGNAL</b>	333 mV at rated current	333 mV at rated current	333 mV at rated current	333 mV at rated current	333 mV at rated current	333 mV at rated current	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz	131 mV/1000A @ 60 Hz 110 mV/1000A @ 50 Hz
<b>USEFUL CURRENT RANGE</b>	<b>20A:</b> 0.25-30 Amps (PS3037) <b>20A:</b> 0.25-40 Amps (PS24) <b>50A:</b> 0.25-80 Amps (ALL)	<b>100A:</b> 1-158 Amps (PS3037) <b>100A:</b> 1-200 Amps (PS24) <b>200A:</b> 1-300 Amps (ALL)	<b>5A:</b> 0.05-7 Amps, <b>15A:</b> 0.15-20 Amps	<b>50A:</b> 1-65 Amps <b>100A:</b> 2-130 Amps	<b>100A:</b> 5-130, <b>200A:</b> 4-260, <b>400A:</b> 8-520, <b>600A:</b> 12-780 Amps	<b>600A:</b> 30-780 Amps <b>1000A:</b> 20-1300 Amps	<b>ALL:</b> 5-4000 Amps (PS3037) <b>ALL:</b> 5-5000 Amps (PS24)	5-4000 Amps (PS3037) 5-5000 Amps (PS24)
<b>ELECTRICAL SPECIFICATIONS</b>								
<b>NOMINAL RATING</b>	20, 50 Amps	100, 200 Amps	5 Amps, 15 Amps	50, 100 Amps	100, 200, 400, 600 Amps	600, 1000 Amps	5000 Amps	5000 Amps
<b>ACCURACY</b>	<0.5% at rated current	<1.0% at rated current	+/- 0.5% at rated current	+/- 1% at 10% to 130% of rated current	+/- 1% at 10% to 130% of rated current	+/- 1% at 10% to 130% of rated current	<0.6%** C57.13-2008 Class 1.2	<1%
<b>PHASE SHIFT</b>	<1.5° at rated current	<0.5° at rated current	<0.5° at rated current	<2° at rated current	<2° at rated current	<2° at rated current	< 0.2° at 50/60 Hz	<1° at 50/60 Hz
<b>FREQUENCY RANGE</b>	50 Hz to 400 Hz	50 Hz to 400 Hz	40 Hz to 1 kHz	50 Hz to 400 Hz	50 Hz to 400 Hz	50 Hz to 400 Hz	20 Hz to 5 kHz	40 Hz to 5 kHz
<b>DIELECTRIC STRENGTH</b>	3520 VAC for 1 minute	5200 VAC for 1 minute	5000V around the case 600V rated leads	5000V around the case 600V rated leads	5000V around the case 600V rated leads	5000V around the case 600V rated leads	7400 VAC around coil 1000 VAC rated leads	7400 VAC around coil 1000 VAC rated leads
<b>MECHANICAL SPECIFICATIONS</b>								
<b>DIMENSIONS</b>	2.6 x 2.9 x 4.2 cm (1.04 x 1.16 x 1.64")	4.7 x 4.7 x 7.0 cm (1.85 x 1.85 x 2.76")	6.4 x 2.5 x 5.1 cm (2.5 x 1.0 x 2.0")	5.08 x 5.34 x 1.55 cm (2.0 x 2.1 x 0.6")	8.26 x 8.6 x 2.54 cm (3.3 x 3.4 x 1.0")	12.07 x 12.70 x 3.05 cm (4.8 x 5.0 x 1.2")	Length 16" (40 cm) Length 24" (60 cm) Length 36" (90 cm) Length 47" (120 cm)	Length 72" (183 cm)
<b>WEIGHT</b>	91 g (3.2 oz)	221 g (7.8 oz)	136 g (4.8 oz)	136 g (4.8 oz)	340 g (12 oz)	748 g (26 oz)	16": 136 g (5 oz) 24": 181 g (6 oz) 36": 227 g (8 oz) 47": 272 g (10 oz)	544 g (19 oz)
<b>POLARITY</b>	White lead is positive	White lead is positive	White lead is positive	White lead is positive	White lead is positive	White lead is positive	White lead is positive	White lead is positive
<b>OUTPUT LEAD</b>	Leads 2.7 m (8 ft) twisted pair, 20 AWG	Leads 2.7 m (8 ft) twisted pair, 22 AWG	Leads 2.7 m (8 ft) twisted pair, 22 AWG	Leads 2.7 m (8 ft) twisted pair, 20 AWG	Leads 2.7 m (8 ft) twisted pair, 20 AWG	Leads 2.7 m (8 ft) twisted pair, 20 AWG	2 m (79") shielded cable	2 m (79") shielded cable
<b>OPERATING TEMPERATURE</b>	-15° to 60° C (5° to 140° F)	-15° to 60° C (5° to 140° F)	-20° to 55° C (-4° to 131° F)	-20° to 55° C (-4° to 131° F)	-20° to 55° C (-4° to 131° F)	-20° to 55° C (-4° to 131° F)	-20° to +70° C (-4° to +158° F)	-20° to +80° C (-4° to +176° F)
<b>STORAGE TEMPERATURE</b>	Maximum 105° C (220° F)	Maximum 105° C (220° F)	Maximum 105° C (220° F)	Maximum 80° C (176° F)	Maximum 80° C (176° F)	Maximum 80° C (176° F)	Maximum 80° C (176° F)	Maximum 80° C (176° F)
<b>CASE PROTECTION</b>	White nylon, UL 94 V-0	White nylon, UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	Epoxy encapsulated housing ABS/PVS UL 94 V-0	PA6 UL 94 V-0	Polypropylene UL 94 V-0 rated
<b>SAFETY SPECIFICATIONS</b>								
<b>SAFETY REQUIREMENTS</b>	UL Recognized: UL STD 61010-1 Certified to: CAN/CSA STD C22.2 No. 61010-1 	UL Recognized: UL STD 61010-1 Certified to: CAN/CSA STD C22.2 No. 61010-1 	CAN/CSA-C60044-1-2007 pts 1 & 2 ANSI/IEEE C57.13, IEEE C57.13.2 	Compliant with IEEE C57.13-1993 CE Mark 	Compliant with IEEE C57.13-1993 CE Mark 	Compliant with IEEE C57.13-1993 CE Mark 	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010 	Conforms to UL STD 61010-1 Certified to CAN/CSA STD C22.2 No. 61010 
<b>WORKING VOLTAGE</b>	600 VAC Category III	600 VAC Category III	Maximum 600 Vrms UL 506	Maximum 600 Vrms Category III	Maximum 600 Vrms Category III	Maximum 600 Vrms Category III	Maximum 1000 Vrms Category III	Maximum 1000 Vrms Category III

\*\*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 RoCoil. Accuracy below 20A rated at 1.5% +/- 0.5A when used with DENT ELITEpro/PowerScout meters. RoCoil CTs have been 100% verified to meet the C57.13-2008 Class 1.2 Standard.

## FOCUSED ON ENERGY MEASUREMENT

DENT Instruments designs and manufactures data loggers and energy recorders for today's energy professionals. Our products are often the first step in developing strong energy strategies, for maintaining peak operations, and for lowering operating costs. Our company has built a reputation for providing instruments of the highest quality whose robust design, small size and remote data acquisition make them the loggers of choice for companies large and small.

Since the company's emergence in 1988, we have performed energy measurement studies for a wide range of utility, government, and private clients. This unique customer perspective has strongly influenced the design of our products, reflected in their ease of installation and use.

DENT products provide meaningful energy data that is used to accurately allocate energy costs, identify energy cost-savings opportunities and lower utility bills. Our versatile instruments help pinpoint electrical usage and quantify consumption.