## **DCM330 Specifications**

The characteristics listed in this section apply under the following conditions:

- The instrument operates in a 0° to 50° C (32° to 122° F) ambient environment unless otherwise noted.
- The instrument warms up for at least 20 minutes.

**NOTE**. All specifications are warranted unless marked "typical." Typical characteristics are not guaranteed but are provided for the convenience of the user.

Table 1: Electrical characteristics

Characteristic	Description	
Overload Protection	2000 A for one minute	
Uninsulated Wire Voltage	600 V <sub>RMS</sub> CAT II	
Measuring Rate	2 times per second nominal	
AC Current, Auto Ranging		
Ranges	400 A and 1000 A	
Uninsulated Wire Voltage Rating	600 V <sub>RMS</sub> CAT II	
Resolution		
400 A Range	0.1 A	
1000 A Range	1 A	
Accuracy	40 Hz to 400 Hz	
0 A to 400 A	±(1.9% of reading + 8 counts)	
401 A to 1000 A	±(2.9% of reading + 5 counts)	
Crest Factor	1.4 to 2.0, add 1.0% to accuracy 2.0 to 2.5, add 2.5% to accuracy	
DC Current, Auto Ranging		
Ranges	400 A and 1000 A	
Resolution		
400 A Range	0.1 A	
1000 A Range	1A	

Table 1: Electrical characteristics (cont.)

Characteristic	Description	
Accuracy		
0 A to 20 A	$\pm$ (1.9% of reading + 10 counts)	
20.1 A to 400 A	±(1.9% of reading + 40 counts)	
401 A to 1000 A	±(2.9% of reading + 5 counts)	
Frequency, Auto Ranging		
Ranges	4 kHz and 10 kHz	
Sensitivity	6 A <sub>RMS</sub> (10 A <sub>RMS</sub> , 1kHz to 10 kHz)	
Resolution		
4 kHz Range	1 Hz	
10 kHz Range	10 Hz	
Accuracy	±(0.5% of reading + 3 counts)	
Peak Hold		
Range	Low, High	
Resolution		
Low	0.1 A	
High	1.0 A	
Accuracy	±(3% of reading + 10 counts)	

Table 2: General specifications

Characteristic	Description	
Auto Power Off	Approximately 30 minutes	
Battery	9 V, ANSI/NEDA1604A, IEC 6F22	
Battery Life	40 hours (alkaline)	
Maximum Conductor Size	51 mm (2 inch) diameter or $24 \times 60$ mm (.95 $\times$ 2.36 inch) bus bar	

Table 3: Certifications and compliances

Certifications	Canadian Standards Association certified to Standard CSA 1010.1, Standard UL3111-1 for Electrical and Electronic Measuring and Testing Equipment, and IEC1010-2-032 particular requirements for hand-held current clamps for electrical measurement and test.		
Overvoltage Category	Category:	Examples of Products in this Category:	
	CAT III	Distribution-level mains, fixed installation	
	CATII	Local-level mains, appliances, portable equipment	
	CATI	Signal levels in special equipment or parts of equipment, telecommunications, electronics	
Pollution Degree 2	Do not operate in environments where conductive pollutants may be present.		

Table 4: Environmental characteristics

Characteristic	Description	
Temperature		
Operating	0° to 50° C (32° to 122° F), <75% relative humidity	
Nonoperating	-20° C to +60° C (21° to 140° F), <80% relative humidity	
Temperature Coefficient 0.2 × (specified accuracy) per °C at <18° C or >28° C		
Maximum Altitude (Operating) 2,000 m (6,562 ft)		