

DCM300 and DCM320 Specifications

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

- The instrument operates in a 0° to 45° C 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
AC Voltage, Auto Ranging (nominal Input Impedance: 10 MΩ, <100 pF)	
Ranges	600 V and 400 V
Voltage Rating	600 V _{RMS} CAT II
Resolution	
400 V Range	0.1 V
600 V Range	1 V
Accuracy	40 to 500 Hz: ±(1.2% of reading + 5 digits)
Crest Factor (DCM 320 only)	1.4 to 2.0, add 0.6% to accuracy 2.0 to 2.5, add 2.0% to accuracy
AC Current, Auto Ranging	
Ranges	600 A and 400 A
Overload Protection	800 A
Uninsulated Wire Voltage Rating	600 V _{RMS} CAT II
Resolution	
400 A Range	0.1 A
600 A Range	1 A
Accuracy	50 to 60 Hz
400 A Range	±(1.9% of reading + 5 digits)
600 A Range	±(2.9% of reading + 5 digits)
Crest Factor (DCM 320 only)	1.4 to 2.0, add 1.0% to accuracy 2.0 to 2.5, add 2.5% to accuracy

Table 1: Electrical characteristics (cont.)

Characteristic	Description
Resistance, Auto ranging (meter beeps if resistance is <100 Ω .)	
Ranges	4 k Ω and 40 k Ω
Overload Protection	600 V _{RMS}
Resolution	
4 k Ω Range	1 Ω
40 k Ω Range	10 Ω
Accuracy	$\pm(2.0\%$ of reading + 9 digits)
Maximum Open Circuit Voltage	1 V

Table 2: General specifications

Characteristic	Description
Auto Power Off	Approximately 30 minutes
Battery	9 V, ANSI/NEDA1604A, IEC 6F22
Battery Life	200 hours (alkaline)
Maximum Conductor Size	40 mm

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
	CAT II	Local-level mains, appliances, portable equipment
	CAT I	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 45° C (32° to 113° F), <75% relative humidity
Nonoperating	-20° to +60° C (-4° to 140° F), <80% relative humidity
Temperature Coefficient	0.2% (specified accuracy) per °C at <18° C (64° F) or >28° C (82° F)
Maximum Altitude (Operating)	2,200 m (7,218 ft.)