SPECIFICATIONS

This section lists the electrical, environmental, and physical characteristics of the probe power supply units. Characteristics that differ among the three probe power supply units are as noted.

The electrical characteristics listed in Table 1-1 apply when an adjusted power supply is operating within the environmental conditions stated in Table 1-2.

Table 1-1
Electrical Characteristics

Characteristic	Information
Output Voltage	
+15 VDC	+15 VDC ±2%
-15 VDC	-15 VDC ±2%
+5 VDC	+5 VDC ±2%
-5 VDC	-5 VDC ±2%
Output Current	300 mA from each supply
Line Voltage	
Low Range	87 VAC to 128 VAC
High Range	174 VAC to 250 VAC
Line Frequency	48 to 440 Hz
Power Consumption	35 W
Line Fuse	
Low Range (115 VAC)	250 V, 0.4 A T/SB
High Range (230 VAC)	250 V, 0.20 A T/SB
1101A Output Configuration (see Fig. 2-1)	Lemo-type connector Pin 1: +5 VDC Pin 2: Common Pin 3: +15 VDC Pin 4: -15 VDC

Table 1-1
Electrical Characteristics (Cont.)

Characteristic	Information
1102 Output Configuration (see Fig. 2-1)	Pin 1: +15 VDC Pin 2: +5 VDC Pin 3: -5 VDC Pin 4: -15 VDC Pin 5: Common
1103 Output Configuration (see Fig. 2-1)	TEKPROBE connector Pin 1: no connection Pin 2: no connection Pin 3: +5 VDC Pin 4: +15 VDC Pin 5: Offset 1 V Pin 6: -5 VDC Pin 7: -15 VDC

Table 1–2: Certifications and compliances

Category	Standards or description	
EC Declaration of Conformity – EMC	Meets intent of Directive 89/336/EEC for Electromagnetic Compatibility. Compliance was demonstrated to the following specifications as listed in the Official Journal of the European Union:	
	EN 55011	Class B Radiated and Conducted Emissions
	EN 50081-1 Emissions:	
	EN 60555-2	AC Power Line Harmonic Emissions
	EN 50082-1 Immunity:	
	IEC 801-2	Electrostatic Discharge Immunity
	IEC 801-3	RF Electromagnetic Field Immunity
	IEC 801-4	Electrical Fast Transient/Burst Immunity
FCC Compliance	Emissions comply with FCC Code of Federal Regulations 47, Part 15, Subpart B, Class A Limits.	
Installation (Overvoltage) Category	Terminals on this product may have different installation (overvoltage) category designations. The installation categories are:	
	CAT III	Distribution-level mains (usually permanently connected). Equipment at this level is typically in a fixed industrial location.
	CAT II	Local-level mains (wall sockets). Equipment at this level includes appliances, portable tools, and similar products. Equipment is usually cord-connected.
	CAT I	Secondary (signal level) or battery operated circuits of electronic equipment.
Pollution Degree	A measure of the contaminates that could occur in the environment around and within a product. Typically the internal environment inside a product is considered to be the same as the external. Products should be used only in the environment for which they are rated.	
	Pollution Degree 1	No pollution or only dry, nonconductive pollution occurs. Products in this category are generally encapsulated, hermetically sealed, or located in clean rooms.
	Pollution Degree 2	Normally only dry, nonconductive pollution occurs. Occasionally a temporary conductivity that is caused by condensation must be expected. This location is a typical office/home environment. Temporary condensation occurs only when the product is out of service.
	Pollution Degree 3	Conductive pollution, or dry, nonconductive pollution that becomes conductive due to condensation. These are sheltered locations where neither temperature nor humidity is controlled. The area is protected from direct sunshine, rain, or direct wind.
	Pollution Degree 4	Pollution that generates persistent conductivity through conductive dust, rain, or snow. Typical outdoor locations.
Safety Standards		
U.S. Nationally Recognized Testing Laboratory Listing	UL1244	Standard for electrical and electronic measuring and test equipment.
Canadian Certification	CAN/CSA C22.2 No. 231	CSA safety requirements for electrical and electronic measuring and test equipment.
European Union Compliance	Low Voltage Directive 73/23/EEC, amended by 93/69/EEC	
	EN 61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use.

Table 1–2: Certifications and compliances (cont.)

Category	Standards or description	
Additional Compliance	IEC61010-1	Safety requirements for electrical equipment for measurement, control, and laboratory use.
Safety Certification Compliance		
Temperature, operating	+5 to +40° C	
Altitude (maximum operating)	2000 meters	
Equipment Type	Test and measuring	
Safety Class	Class 1 (as defined in IEC 1010-1, Annex H) – grounded product	
Overvoltage Category	Overvoltage Category II (as defined in IEC 1010-1, Annex J)	
Pollution Degree	Pollution Degree 2 (as defined in IEC 1010-1). Note: Rated for indoor use only.	

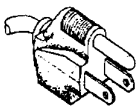
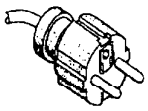
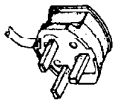
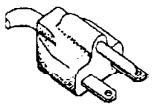
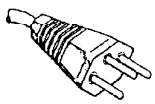
Table 1-3
Physical Characteristics

Characteristic	Information
Net Weight (1101A and 1102)	1.6 kg (3.5 lb)
Net Weight (1103)	1.8 kg (3.9 lb)
Length (1101A and 1102)	16.5 cm (6.5 in)
Length (1103)	17.8 cm (7.0 in)
Width	15.8 cm (6.2 in)
Height	8.9 cm (3.5 in)

POWER CORD OPTIONS

Table 1-4 lists the power cord options and shows their respective plug configurations.

Table 1-4
Instrument Power Cord Options

Plug Configuration	Usage (Max Rating)	Reference Standards & Certification	Option #
	North American 125 V/6 A	[1]ANSI C73.11 [2]NEMA 5-15-P [3]IEC 83 [10]UL [11]CSA	Standard
	European 220 V/6 A	[3]ICE 83 [4]CEE (7), II, IV, VII [8]VDE [9]SEMKO	A1
	United Kingdom 240 V/6 A	[3]IEC 83 [5]BSI 1363	A2
	Australian 240 V/6 A	[6]AS C112 [12]ETSA	A3
	North American 250 V/10 A	[1]ANSI C73.20 [2]NEMA 6-15-P [3]IEC 83 [10]UL [11]CSA	A4
	Switzerland 240 V/6 A	[7]SEV	A5

[1]*ANSI – American National Standards Institute*
[2]*NEMA – National Electrical Manufacturers' Association*
[3]*IEC – International Electrotechnical Commission*
[4]*CEE – International Commission on Rules for the Approval of Electrical Equipment*
[5]*BSI – British Standards Institute*
[6]*AS – Standards Association of Australia*
[7]*SEV – Schweizevischer Elektrotechischer Verein*
[8]*VDE – Verband Deutscher Elektrotechniker*
[9]*SEMKO – Swedish Institute for Testing and Approval of Electrical Equipment*
[10]*UL – Underwriters Laboratories*
[11]*CSA – Canadian Standards Association*
[12]*ETSA – Electricity Trust of South Australia*