

## Specifications

The Performance Requirements listed in Table 13 are warranted over an ambient temperature range of 0 °C to 50 °C only when the 760A has been calibrated at 25 °C  $\pm$  5 °C, following a warm-up period of 20 minutes.

A Performance Check procedure is provided in SECTION 5, PERFORMANCE CHECK AND CALIBRATION PROCEDURES, to verify the Performance Requirements listed in the following table.

Table 1–3: Electrical Characteristics

Characteristic	Performance Requirement	Supplemental Information	Perf Check Step No.
Audio Inputs Balanced Bridging		>10 k $\Omega$ /side.	
Termination	Selectable from >20 k $\Omega$ , 600 $\Omega$ , or 150 $\Omega$	(internal jumper)	2
Protection	Will withstand 50 V peak common-mode input, dc to 20kHz, without damage.		
Sensitivity 760A	Gain selectable for 0 dB bar indication for sine waves of 0, +4, +8, +12, and +16 dBu.	(internal jumper) One user-definable position available, on standard only.	3
760D	1.55 V rms for +0 dB indication.		
760N	1.55 V rms for +6 dB indication.		
CRT Display Automatic Gain Control Control Range 760A 760D 760N	+8 dB to –20 dB (0 dB bar reference). +5 to –25 dB. +15 to –15 dB.		4
Gain Match and Tracking (over AGC range).	$\pm$ 0.3 dB.		5, 6
Phase Match	$\pm$ 1° @0 dB.		7
Frequency Response	$\pm$ 0.5 dB, 20 Hz to 20 kHz throughout AGC Control Range.		8
Z– Axis Dimming	With absence of signal.		10
Bar Graph 100 Segment LED 760A 760D 760N		Green to 0 dB, red above. Green to 0 dB, red above. Green to +6 dB, red above.	

Table 1–3: Electrical Characteristics (Cont.)

Characteristic	Performance Requirement	Supplemental Information	Perf Check Step No.
Display Range 760A –Normal –Expanded 760D –Normal –Expanded 760N –Normal –Expanded		+8 dB to –45 dB 5 dB to –11 dB +5 dB to –50 dB –5 dB to –13 dB +15 dB to –36 dB +3 dB to –6 dB	
Scale 760A 760D 760N		dB linear from +8 to 20 dB. Progressively compressed. dB linear from +15 to –24 dB.	
Resolution 760A  760D  760N		0.4 dB/segment, from +8 to 20 dB. 0.04 dB/ segment with EXPAND SCALE depressed. 0.25 dB/segment from 0 to +5 dB, tapering to 2dB/segment from –40 to –50 dB. 0.125 dB/ segment with EXPAND SCALE depressed. 0.5 dB/segment, from +15 to –24 dB. 0.1 dB/ segment with EXPAND SCALE depressed.	
Accuracy	0.3 dB at 0 dB and 1 kHz		3
Peak Hold		Indicated peaks held approximately 3 seconds.	9
Attack/Decay Dynamics		Conforms to DIN 45 406. 760N also conforms to Technical Recommendation N9.	
Frequency Response 760A 760D 760N	± 0.5 dB, 20 Hz to 20 kHz: +8 to 20 dB +5 to 20 dB +15 to 18 dB		11
Gain Match	0.3 dB.		12
Crosstalk	A full-scale indication on any bar causes no indication on any other bars.	SELECT set to AUX.	13

Table 1-4: Environmental Limits

Characteristic	Supplemental Information
Temperature Stored	-55° C to +75° C.
Operational	0° C to +50° C.
Humidity Operational	Will operate at 95% relative humidity for up to five days. Do not operate with visible moisture on boards.
Altitude Stored	50,000 feet.
Operational	15,000 feet.
Vibration Operational	15 minutes each axis at 0.025 inch, with frequency varied from 10-55-10 Hz in 1 minute cycles with instrument secured to vibration table. 10 minutes each axis at any resonant frequency or at 55 Hz if no resonant frequency is found .
Shock Non-Operating	50 g's 1/2 sine, 11 ms duration, 3 shocks per surface.
Transportation	Qualified under NTSB Test Procedure 1-A, Category II (30 inch drop).

Table 1-5: Physical Characteristics

Characteristic	Supplemental Information
Height	5.25 inches (13.3 cm).
Width	8.424 inches (21.4 cm).
Length	16.875 inches (42.9 cm).
Weight	Approximately 10 pounds.

Table 1–6: Certifications and Compliances

EC Declaration of Conformity – EMC <sup>1</sup>	<p>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 Communities:</p> <p>EN 50081-1 Emissions: EN 55022 Class B Radiated and Conducted Emissions</p> <p>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</p> <p><sup>1</sup> High-quality shielded cables must be used to ensure compliance to the above listed standards. This product complies when installed into any of the following Tektronix instrument enclosures: 1700F00 Standard Cabinet 1700F02 Portable Cabinet 1700F05 Rack Adapter</p>
CSA Certified Power Cords	CSA Certification includes the products and power cords appropriate for use in the North America power network. All other power cords supplied are approved for the country of use.
Safety Standards U.S. Nationally Recognized Laboratory Listing	UL1244 Standard for Electrical and Electronic Measuring and Testing 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 93/68/EEC. EN61010-1 Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use.
Additional Compliance	IEC1010-1 Safety Requirements for Electrical 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 I (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.