



601ES SPECIFICATIONS SHEET

Intrinsically Safe DMM ~ Fail Safe Igniter Tester



Designed for military and defense programs, the AMPTEC 601ES DMM is used to measure stray voltage and current. The 601ES comes in a durable, waterproof case and features a built-in self-test to ensure integrity of measurement. Our NASA Range Safety Board and USAF Space Wing Board approvals, custom conformal coated internal circuits, and all-metal Faraday Cage prove that the 601ES is the safest DMM on the market.

AMPTEC RESEARCH IS AN ISO 9001:2015 CERTIFIED QUALITY MANAGEMENT COMPANY

AMPTEC 601ES SAFETY DMM SPECIFICATIONS

601ES 	RANGE	2 Ω	20 Ω	200 Ω	2 KΩ	20 KΩ
	NOMINAL CURRENT	5 mA	5 mA	.5 mA	50 uA	5 uA
	FAILSAFE CURRENT	8 mA	8 mA	1.5 mA	150 uA	15 uA
	RESOLUTION	100 uΩ	1 mΩ	10 mΩ	100 mΩ	1 Ω

AMPTEC 601ES SAFETY DMM GENERAL SPECIFICATIONS

ACCURACY	2 – 200 V AC/DC: ± .50% of range	TERMINALS	4-Wire Kelvin	POWER	4ea AA Batteries
	600 V AC/DC: ± 1% of range	STORAGE TEMP.	-20° to 70° C	OPERATING TEMP.	0° ± 50° C
		SIZE	13.37" x 11.62" x 6"	MAX INPUT VOLTAGE	250 VDC
	2 AMP AC/DC: ± .5% of range	WEIGHT	9.5 lbs.	DISPLAY	4 ½ digit LED
SIGNAL SOURCE	2 – 20 Ω: ± .05% of reading & range	UPDATE	300 ms.	OVER-RANGE	">>>OR" on display
	50 mV volt. mode display acc.: ± 50 counts on 2 V range	LOW BATTERY	"LO BAT" on display	OPEN CIRCUIT	< 1.6 V
	5 mA curr. mode display acc.: ± 10 counts on 2 AMP range	TEMP. COEFFICIENT	± .005% per 1° C		

AMPTEC 601ES SAFETY DMM ORDERING INFORMATION

MODEL/SKU #	DESCRIPTION
601ES	Safety DMM, OP-304 Leads, N.I.S.T. Calibration Certificate
OP-290	Alligator clip test lead set
OP-300	Gold plated 4-Wire Kelvin clip leads
OP-302	5-way banana jack backed Kelvin clips
OP-401	Gold plated single tip Kelvin probes
OP-402	Surface mount Kelvin micro-probes
OP-403	Standard handheld Kelvin mini-probes
OP-500	Isolated Analog Output

For customized products or probe/lead sets, contact our sales department.



AMPTEC RESEARCH
 T: (512) 858-4045 E: info@amptec.com
 13231 Rooster Springs Rd., Austin, TX 78737
www.amptec.com



Buy Test Equipment at Discount Prices
www.ATEquip.com
sales@ATEquip.com 858-756-8742

rev. 07-2019