

MTS-2000 CONDENSED SPECIFICATIONS



OUTPUTS

AC/DC CURRENT OUTPUTS		
Range	1-phase AC	0-5 A _{rms}
	DC	0-2.5 A _{dc}
Compliance	7V _{rms} min. @5A	14V _{rms} max.
Maximum power	1-phase AC	50 VA, 60Hz
	DC	25 W
Accuracy	Greater of: <ul style="list-style-type: none"> • 0.25% or 0.01A_{rms} (10-400Hz,DC) • 1.0% (400Hz – 1kHz) 	
Resolution	0.001 A _{rms}	
Bandwidth	(-3dB)	3 kHz
Noise & distortion	<1% THD at maximum power (for greater than 5% of range)	
Protection	Overload, over temperature, transient overvoltage, open circuit, clip indication	
Connector	4mm Banana	

AC VOLTAGE OUTPUTS		
Range	1-phase AC	0-150 V _{rms}
	2-ch in series	0-300 V _{rms}
Maximum Power	1-phase AC	30 VA, 60Hz (0.2A max.)
	2-ch in series	60 VA, 60Hz (0.2A max.)
Accuracy	Greater of: (>1% of range) <ul style="list-style-type: none"> • 0.25% or 0.03 V_{rms} (10-400Hz,DC) • 1.0% (400Hz – 800Hz) (within max power & loads >200Ω) 	
Resolution	0.01 V _{rms}	
Bandwidth	(-3dB)	3 kHz
Noise & distortion	<1% THD at maximum power (for greater than 5% of range)	
Protection	Overload, short circuit, over-temperature, transient overvoltage, clip indication	
Connector	4mm banana	

AC OUTPUTS – FREQUENCY/PHASE		
Freq. range	DC, 10 - 1000 Hz	
Freq. resolution	< 100 Hz	1mHz
	≥ 100 Hz	10mHz
Freq. accuracy	50ppm	
Phase range	0 - 359.9°	
Phase resolution	0.1°	
Phase angle accuracy	0.1° (43-65Hz), 0.5° (10-43Hz and 65-120Hz), 1.0° (120Hz -1kHz)	

DC VOLTAGE OUTPUTS	
Range	±150V _{dc} , ±300V _{dc} (2-ch in series)
Max. power	15W (or 30W with 2-ch in series)
Max. current	0.75A _{dc} (typical max.) 1A _{dc} (limited, surge)
Accuracy	Greater of 0.25% or 0.03V (within max power & loads >200Ω)
Resolution	0.1 V
Noise	<1% at maximum power

TRANSDUCER

TRANSDUCER INPUT	
Input range	± 20 mADC
Accuracy	0.04% reading + 0.01% range (25±5°C) after 10min warmup (for waveforms under 2% THD)
Connector	4mm banana

TRANSDUCER OUTPUT	
Output range	0 - 20 mADC
Accuracy	0.04% setting + 0.01% range (25±5°C) after 10min warmup
Compliance	>=10V _{dc} , (>=11V _{dc} typical)
Max Load	10kΩ (to 1mA), 2kΩ (to 4mA), 1kΩ (to 10mA), 500Ω (to 20mA)
Connector	4mm banana

OTHER

POWER INPUT	
Rated range	105-130 VAC / 208-250 VAC
Operating range	90-260 VAC
Frequency	47 - 63 Hz
VA	400 VA max at rated output

COMMUNICATION INTERFACES	
RS-232 (38400 baud, DB-9)	

ACCESSORIES INCLUDED	
<ul style="list-style-type: none"> • Test lead kit and detachable storage pouch • Manual • AC power cord 	

PHYSICAL	
Weight	15 lbs (6.8 kg)
Width	14.9 in. (37.9 cm)
Height	6.9 in. (17.5cm)
Depth	12.1in. (30.8 cm)
Operating Temperature	32° to 122°F (0 to 50°C)
Storage temperature	-13° to 158°F (-25 to 70°C)

Note: Due to technical progress, all specifications are subject to change without notice.

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