

Type II Measurement and Calibration Capabilities

CAPABILITIES	Range	Best Uncertainty	Note*
* S - Source only, M - Measurement only, S/M - Source and Measurement			
DC VOLTAGE	100 uV to 1 kV	+/- 0.0002 %	S/M
Specific values	1 mV	+/- 0.02 %	S/M
	10 V	+/- 0.0002 %	S/M
	1 KV 80KV	+/- 0.02 % +/- 0.75 %	S/M M
AC VOLTAGE	100 mV to 1 kV @ DC to 1MHz **	+/- 0.002 %	S/M
Specific values	1 mV / 1 kHz	+/- 0.1 %	S/M
	1 V / 1 kHz	+/- 0.002 %	S/M
	10V / 1 kHz	+/- 0.002 %	S/M
	30 kV / 60 Hz	+/- 2 %	M
** Not all voltage/frequency combinations available			
DC CURRENT	1 pA to 10 A	+/- 0.001 %	S/M
Specific values	1 pA	+/- 0.5 %	S/M
	1 mA	+/- 0.001 %	S/M
	100 A single turn	+/- 0.1 %	S/M
AC CURRENT	10 uV to 100 A @ DC to 10 kHz **	+/- 0.02 %	S/M
Specific values	10 uA / 1kHz	+/- 0.04 %	S/M
	1 mA / 1 kHz	+/- 0.02 %	S/M
	100 A / 60 Hz single turn	+/- 0.1 %	S/M
** Not all voltage/frequency combinations available			
RESISTANCE	1 mOhm to 1.1 GOhm	+/- 0.0002 %	S/M
Specific values	1 mOhm	+/- 0.05 %	S/M
	10 kOhm	+/- 0.0002 %	S/M
	1.1 GOhm	+/- 0.5 %	S/M
CAPACITANCE	1 pF to 1 F @ 20 Hz to 100 kHz	+/- 0.0002 %	S/M
Specific values	1 pF / 1 kHz	+/- 0.001 %	S/M
	100/10 pF	+/- 0.0002 %	S/M
	10 mF / 100 Hz	+/- 0.005 %	S/M
	1 F / 100 Hz ***	+/- 0.25 %	S/M
*** 4 Terminal Ratio Type			
INDUCTANCE	100 uH to 10 H	+/- 0.02 %	S/M
FREQUENCY	DC to 26.5 GHz	+/- 5E-11	S/M

RF VOLTAGE 50 Ohm	0.5 to 3 V @ up to 100 MHz	+/- 0.02 %	S/M
Specific values	1 V / 1 MHz	+/- 0.02 %	S/M
	1 V / 100 MHz	+/- 0.7 %	S/M
RF POWER	1 mW / 50 MHz	+/- 0.7 %	S/M
	10 uW to 100 mW / 100 KHz to 26 GHz	+/- 0.1 %	S/M
	30 W / 20 MHz to 1 GHz	+/- 3 %	S/M
RF ATTENUATION	0 to 120 dB @ 2.5 to 1300 MHz	+/- 0.05 dB	S/M
TEMPERATURE	-30 to 1000 C	+/- 0.01 C	S/M
HUMIDITY	0 to 75 % RH	+/- 0.5%	S/M
OPTICAL POWER	-70 dBm to 20 dBm @ 850/1310/1550 nm	+/- 5 %	M
	-60 dBm to 0 dBm @ 850/1310/1550 nm	+/- 5 %	S
PRESSURE	0-300 PSI	+/- 0.1%	S/M
	0-10,000PSI	+/- 1.5 %	S/M
VACUUM	0-200 inHG	+/- 0.5%	S/M
SOUND	74 to 124 dB	+/- 0.2 dB	S/M
AERONAUTICAL	Airspeed 0-600 kts	+/- 0.19%	S/M
	Altitude -3000-50,000 ft	+/- 0..21%	S/M
	Rate of Climb 0-6000 ft/min	+/- 1.75%	S/M
	Leak Measurement 10,000-50,000 ft	+/- 0.5%	S/M
LENGTH	0-60 in.	+/- 00050 in.	S/M
	0-20 cm	+/- 10 μm	S/M
TORQUE	1.5 to 100 lbf.in 8-1000 lbf.in 60-600 lbf-ft. 600-1000 lbf-ft.	0.25 % applied 1 % applied 0.50 % applied 1 % applied	M
THREAD	Pitch Diameter Up to 5 in Major Diameter Up to 5 in	(90 + 10D) μin (45 + 2D) μin	M
HARDNESS	HRB HRC HRD	± 1.0 HRB ± 1.0HRC ± 1.0HRD	S/M
WEIGHT	100mg-1Kg 1Kg-20Kg 20kg-100kg 100kg-300kg	0.0016g 0.053g 1.2g 17g	S/M
LOAD CELLS	0-10,000lbs 0-55,000lbs	1.3%	S/M



PH	4.01 pH 7 pH 10 pH	0.039 pH 0.023 pH 0.036 pH	S
VISCOSITY	(0 to 60 000) cP	± 1.7 cP	S
TIME	(0 to 12) hours	± 0.03S	M
SPEED	60-40,000 RPM	± 0.05%	S/M

In recognition of a successful external validation Testmetric complies with the requirements of ISO/IEC 17025:2005 and demonstrate technical competence and operation along with an appropriate Quality Management System for the scope of Calibration Services for Test & Measurement Equipment