



# CAPABILITY TABLE

CALIBRATION & MEASUREMENT



**BEST PARTNER FOR INNOVATION**

### ELECTRICAL LABORATORY

SCOPE	ELECTRICAL						ACCOUSTIC & VIBRATION	
Parameter	DC Voltage	AC Voltage	DC Current	AC Current	Resistance	Capacitance	Sound Calibrator	Sound Level Meter
Units	Volts	Volts	Amps	Amps	Ohm	Farads	Decibel	Decibel
Symbol	V	V	A	A	Ω	F	dB	dB
Source / Generate	0 V	0 V	0 A	0 A	1 mΩ	1pF	94 dB to 124 dB	94 dB to 124 dB
	1000 V	1000 V	20 A	50 A	1 TΩ	110 mF		
Range	100 mV	1 mV	1 pA	1 μA	0 Ω	1 pF	94 dB	94 dB
	1000 mV	1000 V	100 A	100 A	200 TΩ	1 mF	124 dB	124 dB

SCOPE	ELECTRICAL						RF / TIME & FREQUENCY
Parameter	Inductance	Power / Energy	DC High Voltage	AC High Voltage	Speed (Non-Contact)	Time	Frequency
Units	Henri	Watts	Volts	Volts	Rpm	Hours	Hertz
Symbol	H	W	V	V	Rpm	hr	Hz
Source / Generate	100μH	0.1 W			60rpm		
	10 H	20 kW	Up to ± 10kV	Up to 10 kV	99,999 rpm		
Range	1 μH				10 rpm		Measure: Up to 5Hz
	10 H	Up to 18 kW	Up to ±40 kV	Up to 40 kV	99,999 rpm	Up to 24 hours	Generate: Up to 26Hz

### DIMENSIONAL LABORATORY

SCOPE	DIMENSIONAL			OPTICAL & PHOTOMETRY
Parameter	Length	Angle	Flatness	Smoke meter opacity
Units	mm	Degree	Micron	Percent
Symbol	mm	°	μm	%
Range	0.01μm to 10m	1° to 90°	Min to 2μm	32% to 80%

### TEMPERATURE LABORATORY

SCOPE	TEMPERATURE		
Parameter	Temperature	Infrared	Humidity
Units	Degree Celsius	Degree Celsius	Percent/RH
Symbol	°C	°C	μm
Range	-8°C To 950°C	0°C To 1400°C	35% to 95%

### FORCE & PRESSURE LABORATORY

SCOPE	FORCE & PRESSURE				
Parameter	Force	Pressure (Pneumatic)	Pressure (Hydraulic)	Low pressure	Torque
Units	kgf/ton	psi	psi	bar	Newton meter
Symbol	kgf/ton	psi	Psi	bar	Nm
Range	Up to 200,000 kgf/ 200 ton	Up to 1600psi	Up to 40,000 psi	± 400 mbar	Up to 1000 Nm

### MASS & VOLUMETRIC LABORATORY

SCOPE	MASS & VOLUMETRIC			
Parameter	Mass	Hardness	Volumetric	Hydrometer
Units	Kg	Vickers	milliliter	g/ml
Symbol	Kg	HV	ml	g/ml
Range	0.001mg to 3000 kg	Up to 1000 HV	1μl to 2 L	0.600 g/ml to 1.500 g/ml

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