

# OMEGA OMNICAL-8A-110

TYPE: TEMPERATURE CALIBRATOR



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<b>BATTERY MODE BATTERY LIFE</b>	8hours continuous operation minimum for NiCad battery pack Minimum 1000charge/discharge cycles
<b>RECHARGE MODE AND RECAHRGE SOURCE</b>	14 to 16 hours for full charge. Instrument can be operated continuously and indefinitely while on recharge. 110v ac or 220v ac, ±20%,47 to 400Hz. Includes line cord for specified power source.
<b>OPERATE POWER</b>	1.5watts(Battery mode)
<b>PRIMARY/SECONDARY TRANSFORMER ISOLATION</b>	1400V ac.
<b>WEIGHT</b>	9.5 lb (4.3kg)
<b>DIMENSIONS</b>	8(203mm)×12.5(317mm)×6(152mm)
<b>OPERATING TEMPERATURE STORAGE TEMPERATURE</b>	14° to 104°F(-10° to +40°C) -40° to +140°F(-40° to +60°C)
<b>RELATIVE HUMIDITY</b>	0-90% non-condensing.

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## THERMOCOUPLE MEASUREMENT

THERMOCOUPLE TYPE(metals)	SCALE	TEMPERATURE RANGE	RESOLUTION	CONFORMITY	RSS CALIBRATION ACCURACY	OVERALL ACCURACY 1YEAR
J(Fe/CuNi)	°F	-346 to +2192	0.1	±0.2	±0.29	±1
	°C	-210 to +1200	0.1	±0.1	±0.17	±0.6
K(NiCr/NiAl)	°F	-328 to +2501	0.1	±0.2	±0.33	±1
	°C	-200 to +1372	0.1	±0.1	±0.19	±0.6
T(Cu/CuNi)	°F	-337 to +752	0.1	±0.2	±0.25	±1
	°C	-405 to -337	0.1	±9.2	±9.11	±10
		-205 to +400	0.1	±0.1	±0.15	±0.6
		-243 to +205	0.1	±5.1	±5.10	±5.6
E(NiCr /CuNi)	°F	--389 to +1832	0.1	±0.2	±0.27	±1
	°C	-422 to -389	0.1	±5.0	±4.81	±5
		-234 to +1000	0.1	±0.1	±0.16	±0.6
		-252 to -234	0.1	±2.8	±2.71	±2.8
R(Pt13Rh/Pt)	°F	-58 to +3214	1	±0.2	±0.76	±2
	°C	-50 to +1768	1	±0.1	±0.65	±1.1
S(Pt10Rh/Pt)	°F	-58 to +3214	1	±0.2	±0.61	±2
	°C	-50 to +1768	1	±0.1	±0.54	±1.1
C(W5Re /W26Re)	°F	+32 to +2192	1	±0.2	±0.68	±1
	°C	+2192 to +3812	1	±0.2	±0.84	±2
		+3812 to +4200	1	±0.2	±0.97	±3
		0 to +1200	1	±0.1	±0.56	±0.6
		+1200 to +2100	1	±0.1	±0.62	±1.1
	+2100 to +2315	1	±0.1	±0.69	±1.7	

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mV MEASUREMENT

Voltage range	Resolution	RSS calibration	Overall accuracy 1year
-20.000mV to +20.000mV	0.001mV	$\pm(0.005\%$ of reading +2digits )	$\pm(0.003\%$ of reading +5digits )
-101.10mV to -20.00mV; +20.00mV to +101.10mV	0.01mV	$\pm(0.01\%$ of reading +1digit )	$\pm(0.003\%$ of reading +2digits )

**APPLICATIONS:** Used For Temperature Calibrating And mV Measurement.

**CODE:** DSE00T0008A1100008

**MANUAL NO.:**08