



GEO
Calibration

Model 1000 SP

GENERAL SPECIFICATIONS

CALIBRATION	TRACEABILITY	17025 Traceable to NIST		
	PURCHASING	Charged Separately / Optional		
OPERATING AMBIENT CONDITIONS	TEMPERATURE	18 °C to 28 °C		
	HUMIDITY	Up to 80 % RH		
STORAGE CONDITIONS	TEMPERATURE	-20 °C to 50 °C		
	HUMIDITY	0 % to 95 % RH (non-condensing)		
ALTITUDE	2000 m			
CONTROLLED RANGE	TEMPERATURE	5 °C to 55 °C		
	HUMIDITY@ 18°C	5 % to 95 % RH	HUMIDITY@ 35°C	5 % to 85 % RH
	HUMIDITY@ 23°C	5 % to 95 % RH	HUMIDITY@ 40°C	5 % to 75 % RH
	HUMIDITY@ 30°C	5 % to 90 % RH	HUMIDITY@ 50°C	5 % to 50 % RH
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	± 0.12 °C Or Better	Typically ± 0.10 °C	
	HUMIDITY	± 1.00 % RH Or Better	Typically ± 0.80 %	
	CONTROLLER TYPE	PID Controller		
UNIFORMITY	TEMPERATURE	0.10 °C Or Better	Typically ± 0.10 °C	
	HUMIDITY	0.30 % RH @ 18 °C to 28 °C Or Better Typically ± 0.25 %		
STABILITY	TEMPERATURE	0.05 °C		
	HUMIDITY	0.15 % RH @ 18 °C to 28 °C		
RAMP / SOAK RATE OF CHANGE <small>*Depends on ambient conditions</small>	Temperature	High → Low	1.50 °C / minute (Typical)	
		Low → High	3.00 °C / minute (Typical)	
	Humidity	High → Low	5.00 % RH / minute (Typical)	
		Low → High	10.00 % RH / minute (Typical)	
WARM-UP PERIOD	Ambient Condition	30 Minutes Maximum		
	Cold	30 Minutes		
RESOLUTION	DISPLAY	Temperature	0.01 °C	
		Humidity	0.01 % RH	
		Dew Point	0.01 °C (Calculated)	
	USB	Temperature	0.01 °C	
		Humidity	0.01 % RH	

CONSUMABLES

WATER	RESERVOIR	50 ml		
	SPILL RESISTANT	Yes		
	REQUIRED FLUID	Distilled Water Only		
	EST REFILL PERIOD	15 Days to 1 Month (Typical) * Depends on Usage		
	FILL INDICATOR	Floating Ball		
DESICCANT	TYPE	Molecular Sieve		
	REPLACEMENT	When Indicating Desiccant is 3/4 Used		
	REPLACEMENT FREQUENCY	Depends Entirely on User Workload		
	LOCATION	Back Side Mounted		
	FASTENER	Desiccant Mounting Bracket Provided		
RECALIBRATION	FREQUENCY	Depends on User Uncertainty Requirements Once Per Year Recommended		

MECHANICAL

		Measurement Type	Width	Depth	Height
GENERATOR DIMENSIONS		Metric	46.00 cm	31.50 cm	15.00 cm
		Imperial	18.11 in	15.16 in	9.26 in
		Measurement Type	Width	Depth	Height
CHAMBER DIMENSIONS		Metric	19.50 cm	13.00 cm	7.45 cm
		Imperial	7.68 in	5.12 in	2.93 in
		Measurement Type	Width	Depth	Height
WORKING DIMENSIONS AND VOLUME		Metric	19.50 cm	13.00 cm	7.45 cm
		Imperial	7.68 in	5.12 in	2.93 in
		Volume	1.5 Liter Effective Working Volume		
WEIGHT	Unit Only		Metric	8.5 kg	
			Imperial	18.74 lb	
POWER SUPPLY FOR EXTERNAL USE	Power Supply	12 Volt DC @ 1A			
STANDARD PORT QUANTITY	Depends on doors	Availability: 3 Ports			
		Probe Range		Actual Unit Range	
PROBE ANALOG OUTPUTS AVAILABLE	0 - 1 Volt	Temperature	- 40.00 to + 60.00 °C		+ 5.00 to + 60.00 °C
		Humidity	0 to + 100.00 %		+ 5.00 to + 95.00 %

Ordering Information

Standard Supply Package

Square 3-Port Door	Desiccant Canister	Fill Syringe
7 Grommets (1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8")	Mains Power Cord	Calibration Documents

Accessories

Doors	Shape	Port Quantity	Connector Type					Part Number
	Round	3-Port Door	PG29 Connectors					01-001-00-0001
	Round	3-Port Door	SLIMLINE					01-001-00-0002
Grommets	Port Type	Size (in)	Size (mm)	Part Number	Port Type	Size (in)	Size (mm)	Part Number
	M36	0.000"	0.000	01-004-09-0001	SLIMLINE	0.125"	3.175	01-004-09-0020
	M36	0.125"	3.175	01-004-09-0002	SLIMLINE	0.250"	6.350	01-004-09-0021
	M36	0.250"	6.350	01-004-09-0003	SLIMLINE	0.375"	9.525	01-004-09-0022
	M36	0.375"	9.525	01-004-09-0004	SLIMLINE	0.500"	12.700	01-004-09-0023
	M36	0.500"	12.700	01-004-09-0005	SLIMLINE	0.625"	15.875	01-004-09-0024
	M36	0.625"	15.875	01-004-09-0006	SLIMLINE	0.750"	19.050	01-004-09-0025
	M36	0.750"	19.050	01-004-09-0007	SLIMLINE	0.825"	20.950	01-004-09-0026
	M36	0.875"	22.225	01-004-09-0008	SLIMLINE	1.000"	25.400	01-004-09-0027
	M36	1.000"	25.400	01-004-09-0009				
Assorted	Description			Part Number	Description			Part Number
	Desiccant Canister			01-200-11-0001				



GEO Calibration



Proudly Made in the USA



2190 Smithtown Ave, Ronkonkoma NY 11779, USA

E: Sales@GeoCalibration.com W: www.GeoCalibration.com T: (631) 471 - 6157

© 2019 GEO Calibration Inc. All rights reserved.