



GEO

Calibration

Battery Powered

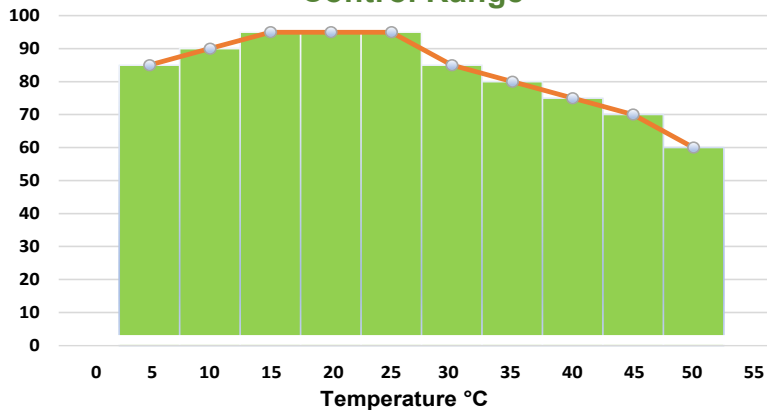
Model 2000 SP-SH

PRODUCT OVERVIEW

GENERAL SPECIFICATIONS

CALIBRATION TO (17025 TRACEABLE TO NIST)	TRANSFER STANDARD	No Charge		
	CERTIFICATE	17025 Validation (Additional Fees Apply)		
OPERATING AMBIENT CONDI- TIONS	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			
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	± 0.10 °C Or Better	Typically ± 0.05 °C	*Based on Probe Accuracy
	HUMIDITY	± 1.00 % RH Or Better	Specially tuned systems can be as good as ± 0.60 %	*Based on Probe Accuracy
	CONTROLLER TYPE	PID Controller		
UNIFORMITY	TEMPERATURE	0.10 °C Or Better	Typically ± 0.05 °C	
	HUMIDITY	0.30 % RH @ 18 °C to 28 °C Or Better		
STABILITY	TEMPERATURE	0.05 °C		
	HUMIDITY	0.15 % RH @ 18 °C to 28 °C		
WARM-UP PERIOD	AMBIENT CONDITIONS	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	

Control Range



RAMP / SOAK RATE OF CHANGE

*Depends on ambient and desiccant conditions

TEMPERATURE	High → Low	1.50 °C / minute *Typical
	Low → High	5.00 °C / minute *Typical
HUMIDITY	High → Low	5.00 % RH / minute *Typical
	Low → High	10.00 % RH / minute *Typical

CONTROL RANGE

TEMPERATURE	5 °C to 55 °C		
HUMIDITY@ 18°C	5 % to 95 % RH	HUMIDITY@ 35°C	5 % to 80 % RH
HUMIDITY@ 23°C	5 % to 95 % RH	HUMIDITY@ 40°C	5 % to 75 % RH
HUMIDITY@ 30°C	5 % to 85 % RH	HUMIDITY@ 50°C	5 % to 60 % RH

CONSUMABLES

WATER	RESERVOIR	200 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	Left Side Mounted
	FASTENER	Desiccant Mounting Bracket Provided
RECALIBRATION	FREQUENCY	Depends on User Uncertainty Requirements Once Per Year Recommended

**Information subject to change, please visit our website for updates at www.geocalibration.com.

MECHANICAL

	Measurement Type	Width(with bracket)	Width(w/o bracket)	Depth	Height
GENERATOR DIMENSIONS	Metric	48.26 cm	40.26 cm	38.50 cm	23.50 cm
	English	19.00 in	15.85 in	15.16 in	9.26 in
	Measurement Type	Diameter	Depth		
CHAMBER DIMENSIONS	Metric	14.50 cm	20.00 cm		
	English	5.71 in	7.87 in		
	Measurement Type	Diameter	Depth		
WORKING DIMENSIONS AND VOLUME	Metric	12.50 cm	10.90 cm		
	English	4.92 in	4.29 in		
	Volume	1.5 Liter Effective Working Volume			
WEIGHT	Unit Only	Metric	12.02 kg		
		English	26.5 lb		
STANDARD PORT QUANTITY	Depends on doors	Availability: 6 Ports, 5 Ports, 4 Ports, 2 Ports			
CHILLED MIRROR PORTS	In and Out				
		Probe Range	Actual Unit Range		
PROBE ANALOG OUTPUTS AVAILABLE	0 - 1 Volt	Temperature	- 40.00 to + 60.00 °C	+ 5.00 to + 55.00 °C	
		Humidity	0 to + 100.00 %	+ 5.00 to + 95.00 %	

ELECTRICAL

OUTPUT POWER SUPPLY 12V DC @ 10-12A / Car Battery 12-13.4 VDC @10-12A Maximum Power 240 Watts

Ordering Information

Standard Supply Package

*Customization is Available
* Complete Accessory List is Available at www.geocalibration.com

Square 6-Port Door	Desiccant Canister	Fill Syringe
7 Grommets (1/8", 1/4", 3/8", 1/2", 5/8", 3/4", 7/8")	DC Cable Power Supply(Optional)	Calibration Documents

Accessories


Doors	Shape	Port Quantity		Connector Type		Part Number		
	Square / Round	6-Port Door		M36 Connectors		01-001-00-0017 / 01-001-00-0018		
	Square / Round	4-Port Door		M36 Connectors		01-001-00-0003 / 01-001-00-0004		
	Square / Round	4-Port Door		SLIMLINE		01-001-00-0024 / 01-001-00-0025		
	Square	4-Port Chilled MirrorDoor		M36 Connectors		01-001-00-0010		
	Square	2-Port Door		M36 Connectors		01-001-00-0028		
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				
Expansion Chamber	Description			Width	Depth	Height	Part Number	
	Standard Expansion Chamber			220mm	286mm	345mm	01-054-00-0000	
Additional	Description		Part Number	Note:				
	Desiccant Canister w/ Material		01-200-11-0001	(Various Desiccant Canisters and Expansion Chamber Available For This Unit.)				
	Chamber Insert		01-200-08-0025					

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GEO
Calibration
Humidity Control Company



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