



GEO

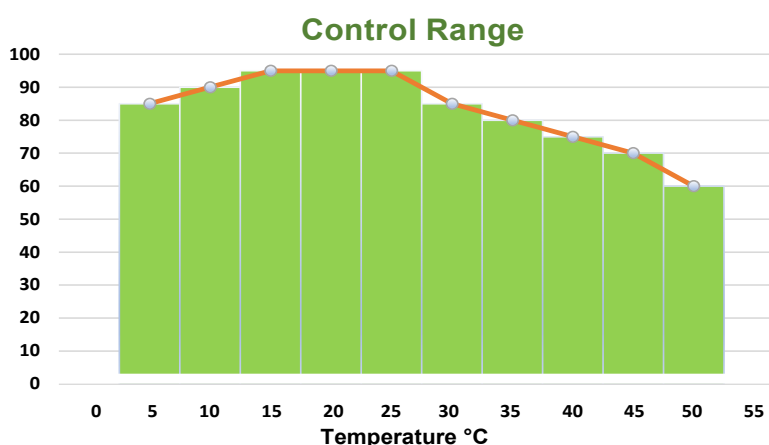
Calibration

Multi-Gen 2

PRODUCT OVERVIEW

GENERAL SPECIFICATIONS (For Each Chamber - Chamber 1 and 2)

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 Typically ± 0.25 %		
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	



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 (For Each Chamber - Chamber 1 and 2)

WATER	RESERVOIR	200 ml (For each chamber - independently)	
	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	Front Mounted	
	FASTENER	Desiccant Doors	
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

CHAMBER QUANTITY	2			
GENERATOR DIMENSIONS	Measurement Type	Width	Depth	Height
	Metric	46.99 cm	41.91cm	43.51 cm
	English	18.50 in	16.50 in	17.13 in
CHAMBER DIMENSIONS (For Each Chamber - Chamber 1 and 2)	Measurement Type	Diameter	Depth	
	Metric	14.50 cm	20.00 cm	
	English	5.71 in	7.87 in	
WORKING DIMENSIONS AND VOLUME (For Each Chamber- Chamber 1 and 2)	Measurement Type	Diameter	Depth	
	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	25.40 kg	
		English	56.00 lb	
STANDARD PORT QUANTITY (For Each Chamber - Chamber 1 and 2)	Depends on doors	Availability: 6 Ports, 5 Ports, 4 Ports, 2 Ports		
CHILLED MIRROR PORTS	In and Out			
PROBE ANALOG OUTPUTS AVAILABLE	0 - 1 Volt	Probe Range	Actual Unit Range	
		Temperature	- 40.00 to + 60.00 °C	+ 5.00 to + 55.00 °C
		Humidity	0 to + 100.00 %	+ 5.00 to + 95.00 %

ELECTRICAL

AC VOLTAGE	100-240 VAC, 47-63 Hz @5A		
POWER CONSUMPTION	440 Watts (VA)		
TRANSDUCER POWER OUTPUT (For Each Chamber- Chamber 1 and 2)	12 Volt DC @ 1A		

Ordering Information

*Customization is Available

Standard Supply Package

* 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")	Mains Power Cord	Calibration Documents

Optional Supply Package

Extended Control Ranges	Integrated PC with Computer Monitor and Wifi Connection	Automatic Validation and Calibration
Report and Log Generation	Chilled Mirror	

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)	Port Type	Size (in)	Size (mm)
	M36	0.000" - 1.000"	0.000 - 25.400	SLIMLINE	0.125" - 1.000"	3.175 - 25.400
Additional	Description	Part Number	Description	Part Number		
	Desiccant Canister w/ Material	01-200-11-0001	Chamber Insert	01-200-08-0025		
	Desiccant Clamp	01-200-01-0013	(Various Desiccant Canisters and Expansion Chamber Available)			


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GEO
Calibration

Humidity Control Company



Proudly Made in the USA 

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