



GEO *Calibration*

Hygro-Mini X

PRODUCT OVERVIEW

GENERAL SPECIFICATIONS

CALIBRATION TO (17025 TRACEABLE TO NIST)	TRANSFER STANDARD	No Charge		
	CERTIFICATE	17025 Validation (Additional Fees Apply)		
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)		
CONTROLLED RANGE	TEMPERATURE	10 °C to 50 °C @ Ambient Temperature 23 °C		
	HUMIDITY@ 18°C	5 % to 75% RH	HUMIDITY@ 35°C	5 % to 75 % RH
	HUMIDITY@ 23°C	5 % to 85 % RH	HUMIDITY@ 40°C	5 % to 70 % RH
	HUMIDITY@ 30°C	5 % to 80 % RH	HUMIDITY@ 50°C	5 % to 65 % RH
CALIBRATION SYSTEM ACCURACY	TEMPERATURE	± 0.10 °C	*Based on Probe Accuracy	
	HUMIDITY	± 1.00 % RH	*Based on Probe Accuracy	
	CONTROLLER TYPE	PID Controller		
UNIFORMITY	TEMPERATURE	0.20 °C		
	HUMIDITY	0.40 % RH @ 23 °C		
STABILITY	TEMPERATURE	0.10 °C		
	HUMIDITY	0.15 % RH @ 23 °C		
RAMP / SOAK RATE OF CHANGE <small>*Depends on ambient and desiccant conditions</small>	TEMPERATURE	High → Low	1.00 °C / minute	*Typical (Based on Desiccant)
		Low → High	1.00 °C / minute	*Typical (Based on Desiccant)
	HUMIDITY	High → Low	3.00 % RH / minute	*Typical (Based on Desiccant)
		Low → High	3.00 % RH / minute	*Typical (Based on Desiccant)
WARM-UP PERIOD	AMBIENT CONDITIONS	30 Minutes Maximum		
	COLD	45 to 60 Minutes		
RESOLUTION	DISPLAY	Temperature	0.1 °C	
		Humidity	0.1 % RH	

CONSUMABLES

WATER	RESERVOIR	55 ml		
	SPILL RESISTANT	Yes		
	REQUIRED FLUID	Distilled Water Only		
	EST. REFILL PERIOD	1 Month (Typical)	*Depends on Usage	
	FILL INDICATOR	Front Panel	*Screen Icon	
DESICCANT	TYPE	Indicating Molecular Sieve		
	SIZE	360 CC		
	REPLACEMENT	When Indicating Desiccant is 3/4 Used		
	REPLACEMENT FREQUENCY	Depends Entirely on User Workload		
BATTERY	LOCATION	Right Side Mounted		
	SIZE	11000 mAh 12 VDC		
	TYPE	Lithium-Ion		
	CYCLES	300 (Average)	*Typical	
	AVERAGE USE TIME	5 Hours		
RECALIBRATION	FREQUENCY	Depends on User Uncertainty Requirements		
		Once Per Year Recommended		
EXTERNAL INTERFACE	USB	Cable and Software Included		

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

MECHANICAL

GENERATOR DIMENSIONS	Measurement Type	Width	Depth	Height
	Metric	31.01 cm	27.77 cm	11.49 cm
	English	12.21 in	10.93 in	4.53 in
WORKING DIMENSIONS AND VOLUME	Measurement Type	Depth	Diameter	
	Metric	14.35 cm	6.10 cm	
	English	5.65 in	2.40 in	
	Volume	0.4 Liter Effective Working Volume		
WEIGHT	Unit Only (With Desiccant)	Metric	4.99 kg	
		English	11.0 lb	
	Shipping	Metric	8.00 kg	
		English	17.64 lb	
POWER SUPPLY FOR EXTERNAL USE	Power Supply	12 Volt DC @ 10A		
STANDARD PORT QUANTITY	1 Port			
CAPACITY	1 RH Probe Size	6 - 25 mm		

Ordering Information *Customization is Available

Standard Supply Package

Single Probe 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
	Circle	1-Port Door		M36 Connectors			01-020-01-0015
Grommets	Port Type	Size (in)	Size (mm)	Part Number			
	SLIMLINE	0.125"	3.175	01-004-09-0020			
	SLIMLINE	0.250"	6.350	01-004-09-0021			
	SLIMLINE	0.375"	9.525	01-004-09-0022			
	SLIMLINE	0.500"	12.700	01-004-09-0023			
	SLIMLINE	0.625"	15.875	01-004-09-0024			
	SLIMLINE	0.750"	19.050	01-004-09-0025			
	SLIMLINE	0.825"	20.950	01-004-09-0026			
SLIMLINE	1.000"	25.400	01-004-09-0027				
Assorted	Description			Part Number	Description		Part Number
	Desiccant Canister			01-020-11-0003	Hygro-Mini Case		01-020-36-0007
	Battery Replacement			01-022-36-0003			

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Proudly Made in the USA 

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