



**GEO**

**Calibration**

**Hygro-Mini X**

# 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)	
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	
	HUMIDITY	± 1.00 % RH	
	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 conditions and desiccant conditions</small>	Temperature	High → Low	1.00 °C / minute (Typical)
		Low → High	1.00 °C / minute (Typical)
	Humidity	High → Low	3.00 % RH / minute (Typical)
		Low → High	3.00 % RH / minute (Typical)
WARM-UP PERIOD	Ambient Condition	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	
	LOCATION	Left Side Mounted	
BATTERY	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	

# MECHANICAL

GENERATOR DIMENSIONS	Measurement Type	Width	Depth	Height
	Metric	31.01 cm	27.77 cm	11.49 cm
	Imperial	12.21 in	10.93 in	4.53 in
CHAMBER DIMENSIONS	Measurement Type	Depth	Diameter	
	Metric	14.35 cm	6.10 cm	
	Imperial	5.65 in	2.40 in	
WORKING DIMENSIONS AND VOLUME	Measurement Type	Depth	Diameter	
	Metric	14.35 cm	6.10 cm	
	Imperial	5.65 in	2.40 in	
WEIGHT	Unit Only (With Desiccant)	Metric	4.99 kg	
		Imperial	11.0 lb	
	Shipping	Metric	8.00 kg	
		Imperial	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

### 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	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	SLIMLINE			
Assorted	Description	Part Number		Description	Part Number			
	Desiccant Canister	01-020-11-0003						
	Battery Replacement	01-022-36-0003						



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Proudly Made in the USA 

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