

The New Hygro Mini

Portable, Battery powered

Humidity & Temperature Generator / Calibrator



Features:

- Compact size and lightweight for easy transport
- Rapid humidity and temperature settling time for highly accurate calibration
- Battery powered
- Ideal for field calibrations or labs with smaller calibration volumes
- Factory Calibration Transfer Standard included and optional ISO17025 Accredited Calibration available (optional)

GENERAL SPECIFICATIONS

CALIBRATION TO (17025 TRACEABLE TO NIST)	FACTORY CALIBRATION CERTIFICATE	No Charge 17025 Validation (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	18 °C to 35 °C		
	HUMIDITY@ 18°C	5 % to 75 % RH		
	HUMIDITY@ 23°C	5 % to 85 % RH		
	HUMIDITY@ 30°C	5 % to 80 % 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	TEMPERATURE	High → Low	1.00 °C / minute	*Typical (Based on Desiccant)
		Low → High	1.00 °C / minute	*Typical (Based on Desiccant)
*Depends on ambient and desiccant conditions	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 tp 60 Minutes		
RESOLUTION	DISPLAY	Temperature	0.1 °C	
		Humidity	0.1 % RH	
		Dew Point	0.01 °C (Calculated)	

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	Indicatin Molecular Sieve		
	SIZE	90 CC		
	REPLACEMENT	When Indicating Desiccant is 3/4 Used		
	REPLACEMENT FREQUENCY	Depends Entirely on User Workload		
	LOCATION	Front Side Mounted		
	SIZE	6000 mAh 12 VDC		
BATTERY	TYPE	Lithium-Ion		
	CYCLES	300(Average) *Typical		
	AVERAGE USE TIME	3 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
		26.97 cm	31.81 cm	11.00 cm
WORKING DIMENSIONS AND VOLUME	Measurement Type	Depth	Diameter	
		16.49 cm	6.06 cm	
	Volume	0.15 Liter Effective Working Volume		
WEIGHT	Unit Only	4.00 kg		
	Shipping	8.00 kg		
POWER SUPPLY FOR EXTERNAL USE	Power Supply	12 Volt DC @ 10 A		
STANDARD PORT QUANTITY	1 Port			
CAPACITY	1 RH Probe Size	6 – 25 mm		

