

The Model 2000 DFB

Purpose built for rapid probe calibration, the 2000 DFB features a patented method of reading, recording and plotting analog probe data output.

Features:

Analog Probe Reader
Automatic Ramp / Soak
Live Probe Feedback

DFB Software Integration
Technician Profiles
Digital Log Output



CONTROL

Range	RH	5% to 95%	@ 23°C
	Temperature	5 to 55°C	
	Dew Point	-25°C to 45°C	
Uniformity	RH	±0.2%	@ 5% to 50%
		±0.3%	@ 50% to 90%
		±0.4%	@ 90% to 95%
	Temperature	±0.2°C	@ 50%RH
Stability at Equilibrium	RH	± 0.3%	@ 23°C
	Temperature	± 0.1°C	
Controller Type	Embedded multiple input PID controller, LCD		
Resolution	RH	0.1%	
	Temperature	0.1°C	
Generation Method	Mixed flow with desiccant dryer cell and heating element humidifier		

PERFORMANCE

Response Time	RH	3 - 5 Minutes	
	Temperature	Cooling	1.5°C / Minute
		Heating	5°C / Minute
Calibration Uncertainties	RH	± 1.0%	@ 10 - 80%
		± 1.25%	@ 80 - 95%
	Temperature	± 0.2°C	
Control Probe	RH Uncertainty	± .6%	@ 23°C
	Calibration Certificate	Traceable to NIST	

STANDARD FEATURES

Water	Reservoir	150 mL	
	Spill Resistant	Yes	
	Water Quality	Distilled	
	Est Refill Period	1 Month	*Typical
	Fill Indicator	Front Panel	
Desiccant	Type	Molecular Sieve	
	USB	Cable and Software Included	
External Interface			
Digital Feedback (DFB)	Digitally record live analog probe data with internal reference, for automatic calibrations.		

OPTIONAL FEATURES

External Reference	Outlet and Inlet	Plastic fittings to prevent condensation
	Size	1/4" turn quick connectors
Analog Outputs	Temperature / RH	Analog 0 - 1 Volt

MECHANICAL / ELECTRICAL

Generator	Dimensions	37 cm (D) x 46 cm (W) x 23 cm (H)
	Enclosure Material	Powder Coated Aluminum
	Power Supply	Universal 100 - 260 VAC - 50/60 Hz
Chamber	Dimensions	19 cm (Depth) x 14.5 cm (Diameter)
	Volume	2 Liter Effective Working Volume
	Material	Insulated Plastic
Weight		14 kg
Probe Power Supply	Power Supply	12 Volt DC @ 1A
Probe Ports	Port Total	4 Ports
	Standard	12.5 mm, 19 mm and 25 mm
Probe Port Sizes	Custom	6 mm to 32 mm

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