DM2000

PRECISION DEW POINT METER

- Precision drift free dew point measurement, accuracy could reach ±0.2°Cdp
- Robust and durable sensor design, superior stability
- Force frost and auto cleaning technology
- 7 inch TFT touch screen for better user experience
- Built-in battery could support continuous work for 8 hours
- Support RS232/485, USB, LAN communication

CalPower

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DM2000

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PRECISION DEW POINT METER

DM2000 Precision Mirror Dew Point Meter is a precision hygrometer, dew point measuring range -30℃ dp~90℃dp, humidity measuring range 2%RH~100%RH. Drift free and precise dew point measurement; temperature measuring accuracy is ±0.1℃; dew point measurement accuracy could reach ±0.2℃dp; Robust and durable sensor design, force frost technology .

DM2000 adopts humanized design, and could connect with drift free dew point sensor and complete laboratory and industrial humidity measurement. 7 inch TFT touch screen for better user experience. It could support communication via serial, LAN(Ethernet) and USB, etc.; Built-in battery could support continuous work for 8 hours, better for outdoor application, easy to use.

- Precision drift free dew point measurement
- Accuracy could reach ±0.2℃dp
- Robust and durable sensor design
- Force frost and auto cleaning technology
- 7 inch TFT touch screen for better user experience
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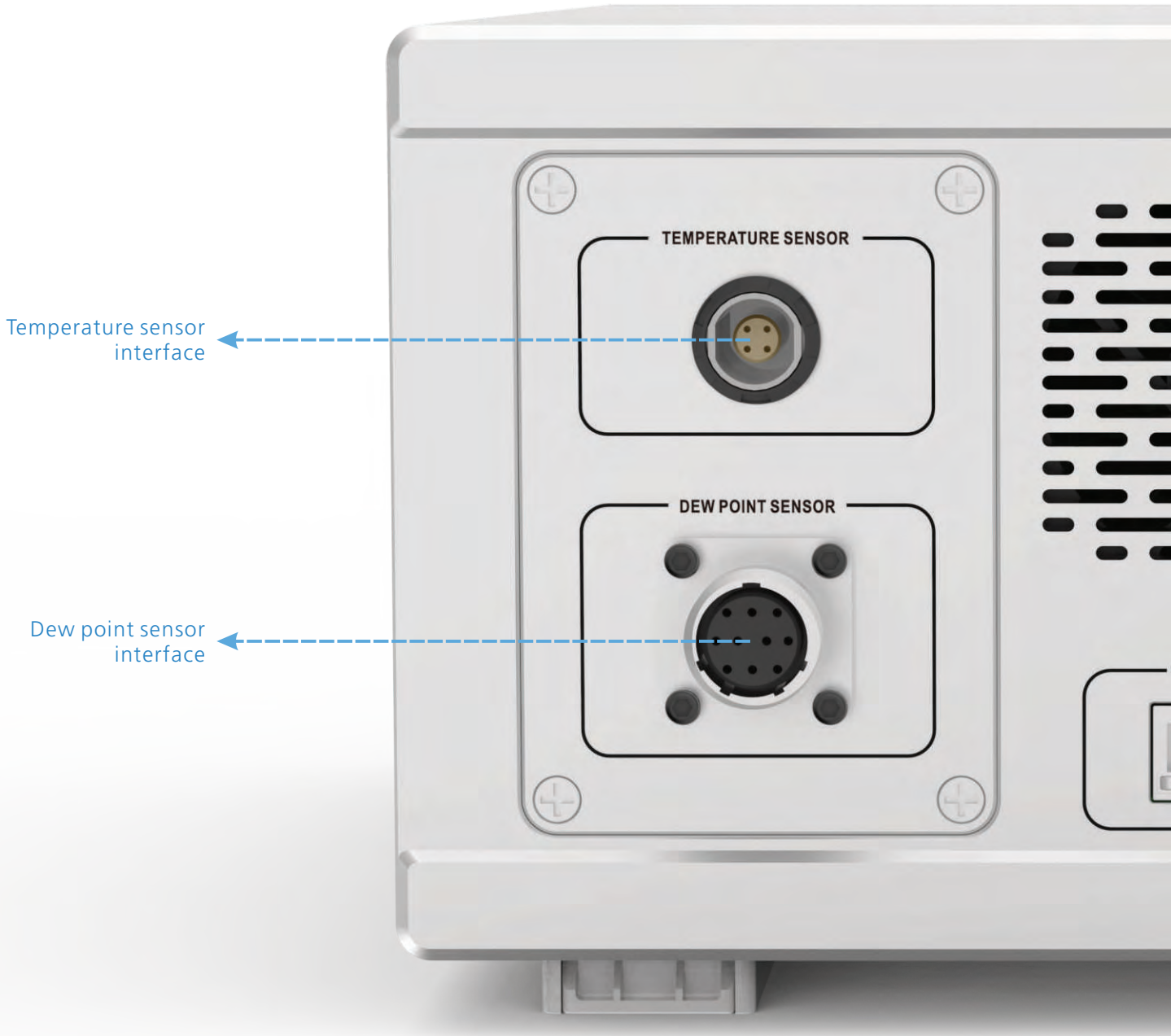
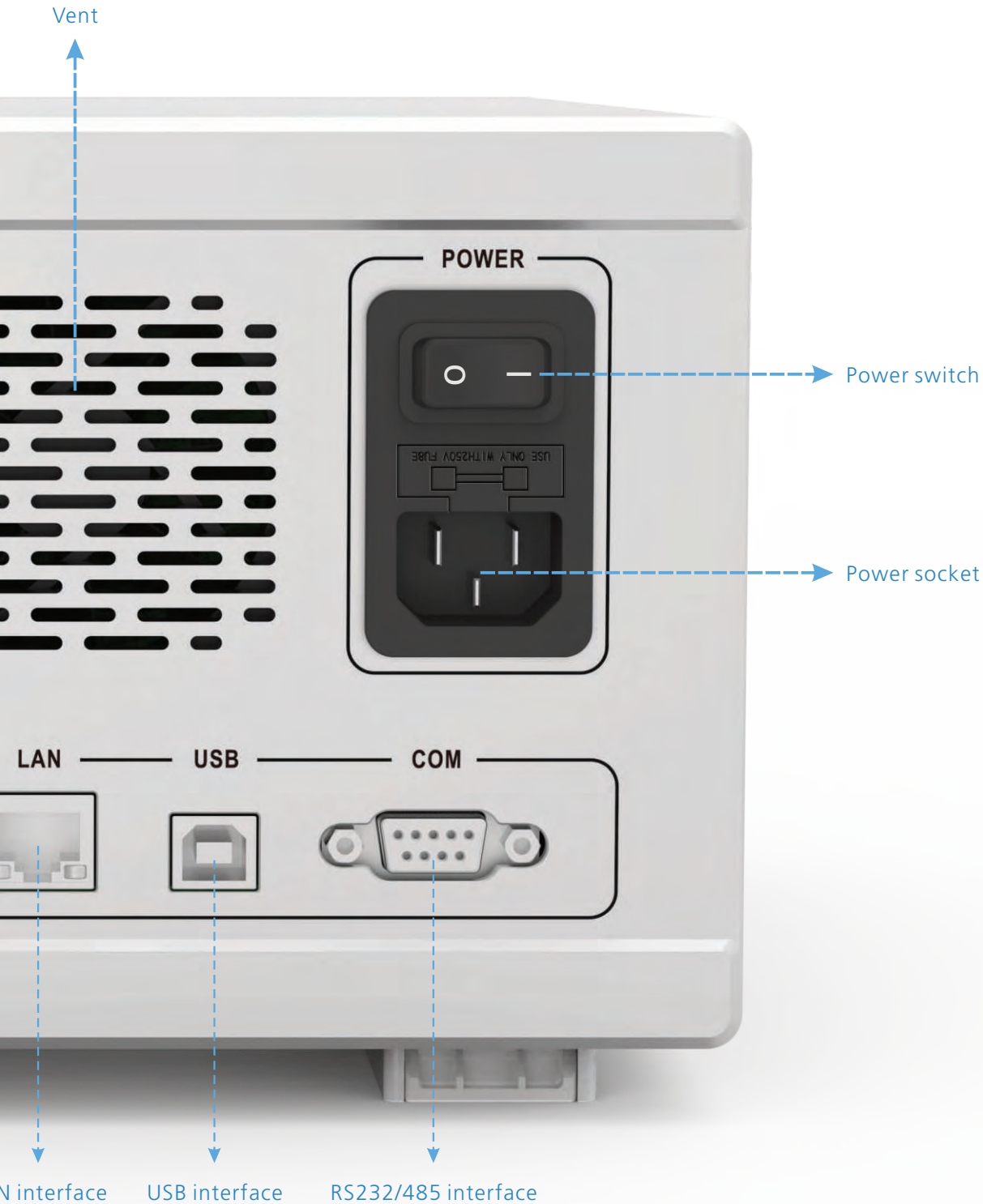
DM2000 • Host Machine

Graph
DO PRECISION DEW POINT METER
2017/01/07 14: 25: 30
GRAPH
DEW-POIN
TEMP
45
30
15
0
-15
-30
0
200
400
%RH
MAX: 9.35
°Cdp
STATUS
14 : 25 : 30 MEASURING . . .
STOP
Time
Front USB interface
Shortcut keys
Status information
Charging indicator light
Power key
Measurement start/stop

DM2000 • Host Machine

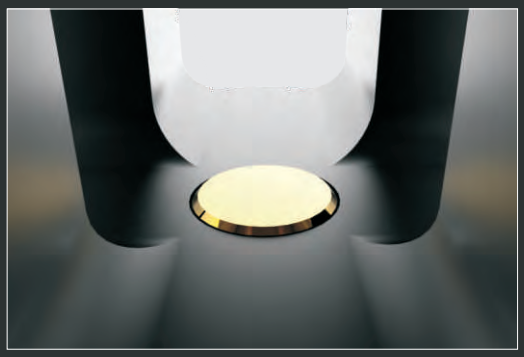



Vent
POWER
Power switch
Power socket
LAN
USB
COM
N interface
USB interface
RS232/485 interface

DM2000 • Functions and Features

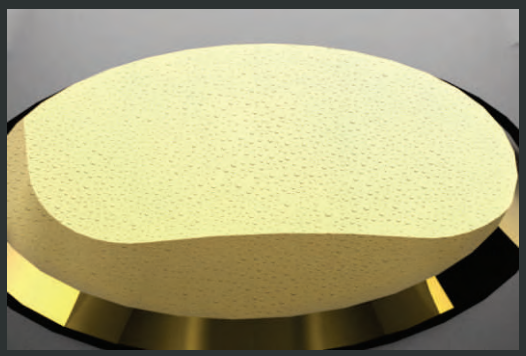
Measurement

- Drift free dew point measurement, measuring range -30~90℃dp
- Measuring accuracy ±0.2℃dp, ±0.1℃
- Response 1℃/sec, plus set time (As per dew point)



Stability

- Gold-plated copper material, stable performance, robust and durable
- Excellent thermal conductivity, high temperature resistant



Auto Cleaning Technology

- Auto pollution dynamic correction
- Auto setting for the measuring reference point

Color Touchscreen

- 7 inch super big TFT LCD display
- Capacitive touchscreen operation
- Could check graph

Force Frost

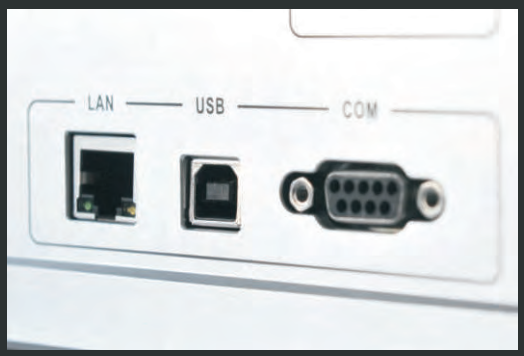
· Stable temperature control mirror

· Advanced optical detection system

Logging

· Internal storage capacity of 1G, and could extend to external storage

· Support USB flash disk to export data (function will be available with next firmware version)



Communication

· Support RS232/485, USB, LAN communication interfaces

· Support remote control and group networking application

· Support embedded Web operation

Power Supply

· 100~240 VAC universal input

· Built-in lithium polymer battery support continuous work for 8 hours

DM2000 • Technical Specification

Technical Specification

Measuring accuracy	±0.2℃dp, ±0.1℃ Temperature	Resolution	0.1 for ℃, °F and %RH, 0.01 for g/m³ and g/kg
Measurement units	℃, °F dew point; %RH; ℃, °F temperature; g/m³; g/kg; aw; Δ (t-t dew point)	Response speed	1℃/s plus setting time(As per dew point)

Dew Point Sensor

Dew point range	-30℃dp@ sensor temperature of 20℃ +90℃dp@ sensor temperature of 90℃	Sensor material	316L stainless steel(Standard)
		Temperature measuring	4 wires PT100, 1/3 DIN class B
Temperature range	-40℃~90℃(dew point sensor working temperature)	Max speed	10 m/s direct insertion, 30 m/s with sintered guard
Humidity range	<2%RH~100%RH	Sampling flow	0~2 Nl/min(Under sampling)
Min measured dew point	-30℃ @20℃	Pressure	2MPa
Mirror material	Gold-plated copper(Standard)	Cable length	2m/5m/customized

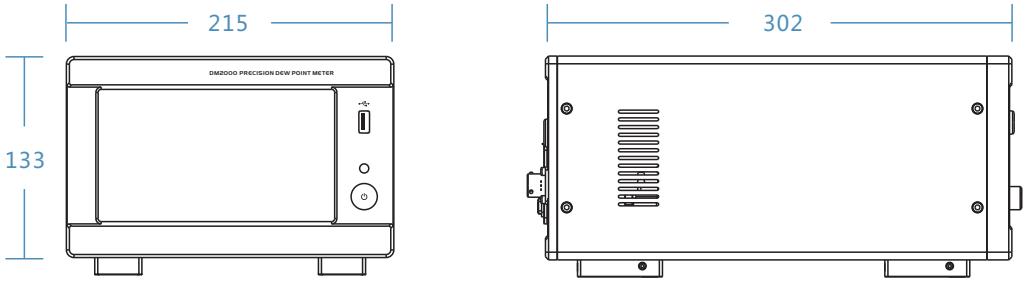
Temperature Sensor

Temperature measuring	4 wires PT100, 1/10 DIN class B	Cable length	2m/5m/customized

General Specification

Display	7 inch, 800×480 TFT LCD
Working temperature	-20~50℃(Whole machine)
Working environment	-10~40℃, 10%~95%RH(Non-condensing)
Storage environment	-20~70℃, 10%~95%RH(Non-condensing)
Power supply	100~240VAC 0.5A, 50/60Hz
Battery	Lithium polymer battery 14.8V/8000mAh
Battery life	Continuous works for 8 hours/ stand by 90 days
Communication interface	RS485/232, USB, LAN
EMC	EN 50081-1 Class B EN 50082-1 Class B
ESD Protection	±25KV
Dimensions	215×133×302mm(w/h/d) (3U, 1/2 size of 19 inch rack)
Weight	5kg
Certifications	CE, FCC, VCCI, C-TICK

Dimensions(mm)



Standard Accessories

Dew point sensor

Temperature sensor

Serial communication cable

LAN communication cable

USB communication cable

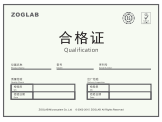
Power cable

Calibration Certificate

User's manual

Warranty card

Qualification



Maintenance manual

WEEE card

CD

Optional Accessories

Pump

Ordering Information

Ordering model	Features
DM2000 STD	-30℃dp~90℃dp

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