

Temperature & Humidity Data Logger

YDP-10E/10EB/700E/700EB Temp.
YDP-20/20B/20E/20EB Temp. & Humidity

Version: V1.2.8

DESCRIPTION:

YDP series are used to monitor the environment temperature and humidity, which are also with data logger function.

YDP-10E is used external probe to measure the temperature, and its measuring range is $-40\sim+125\text{ }^{\circ}\text{C}$. This instrument is with huge storage capacity, which is up to 500000 measurement data. It can be connected to PC via USB, and generate encrypted data report automatically. User can also export files in multiple formats via PC software. This instrument supports calibration, and user can enter the calibration data through the PC software to correct its parameters.

YDP-700E optimizes the principle on the basic of YDP-10E, and it upgrade it to platinum resistance probe, which expands the measuring range to $-200\sim+250\text{ }^{\circ}\text{C}$.

YDP-20/20E optimizes on the basic of YDP-10E, and it added the humidity measuring function. For these two models, YDP-20 is using internal probe, and YDP-20E is using external probe.

YDP-10EB/700EB/20B/20EB optimizes on the basic of YDP-10E/700E/20/20E, and it added Bluetooth function, then it can be used in conjunction with the mobile phone APP. Users can read the parameters measured by the instrument in real time through the mobile APP, or export the data recorded by the instrument for analysis and processing.

FEATURES:

- **3.9 inch LCD screen with backlight**
- **Bluetooth & Mobile APP**
(YDP-10EB/700EB/20B/20EB)
- **Touch-sensitive buttons**
- **Display maximum, minimum and average**
- **Exceed-limit alarm**
- **Multiple probes optional**
- **txt/csv/xls/dlg files are available**
- **With PC software**
- **Read encrypted PDF data by USB without any drive**
- **Calibration**
- **Large storage capacity**
- **Long standby time**
- **Data anti-lost when power off**
- **Support multiple power supply**
- **Low battery protection**



APPLICATION:

- **Agricultural greenhouses, breeding**
- **Museums, laboratories, hospitals**
- **Production and transportation**
- **Quality inspection, warehouse**
- **Home and office environment monitoring**

YDP Series Temperature & Humidity Data Logger

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YDP-20/20B/20E/20EB Temp. & Humidity

NOTE:

- Avoid sun exposure.
- Avoid direct contact with corrosive chemicals.
- Prevent the device from falling out.

WARNING:

- Self-disassemble is not allowed!
- No surge with heavy currents/static electricity!

SPECIFICATION:

- Temperature Series

Model	YDP-10E	YDP-10EB
Measuring Parameter	Temperature	
Probe Type	Normal external temperature probe	
Unit	℃, ℉	
Measuring Range of the Whole Machine	-40~+125℃	
Measuring Accuracy of the Whole Machine	±0.3℃(-10~+65℃) ±0.6℃(The other range is the largest)	
Resolution	0.1℃	
Response Time(t ₉₀)	5 minutes	
LCD Refresh Interval	5 seconds	
Display Refresh Interval	5 seconds	
Storage	25920 or 500000 measurement data(Optional on the specified version of software)	
Display	Dot matrix LCD display	
Bluetooth & APP	Not Supported	Supported
Operation Temperature	-30~+65℃	
Storage Temperature	-30~+65℃(No battery)	
Power Supply	3 pcs 1.5V AAA alkaline battery; USB 5V/2A	
Battery Life	About 1 year(Condition: battery capacity 1200mAh, environment temperature 25℃, turn off the backlight, beep and Bluetooth)	
Protection Class	IP20	
Size	108*96*20mm	
Material	ABS	
Weight	About 120g(No battery)	
Warranty	12 months	

Table 1

Temperature & Humidity Data Logger

YDP-10E/10EB/700E/700EB Temp.
YDP-20/20B/20E/20EB Temp. & Humidity

Model	YDP-700E	YDP-700EB
Measuring Parameter	Temperature	
Probe Type	External platinum resistance probe	
Unit	℃, ℉	
Measuring Range of the Whole Machine	-200~+250℃	
Measuring Accuracy of the Whole Machine	With 1/3B PT1000: $\pm 0.5^{\circ}\text{C}$ (-100~+100℃); $\pm 1^{\circ}\text{C}$ (others) With A PT1000: $\pm 0.7^{\circ}\text{C}$ (-100~+100℃); $\pm 1^{\circ}\text{C}$ (others)	
Resolution	0.1℃	
Standard Probe Measuring Range	-40~+200℃	
Standard Probe Type	1/3B PT1000	
Response Time(t_{90})	5 minutes	
LCD Refresh Interval	5 seconds	
Display Refresh Interval	5 seconds	
Storage	25920 or 500000 measurement data(Optional on the specified version of software)	
Display	Dot matrix LCD display	
Bluetooth & APP	Not Supported	Supported
Operation Temperature	-30~+65℃	
Storage Temperature	-30~+65℃ (No battery)	
Power Supply	3 pcs 1.5V AAA alkaline battery; USB 5V/2A	
Battery Life	About 1 year(Condition: battery capacity 1200mAh, environment temperature 25℃, turn off the backlight, beep and Bluetooth)	
Protection Class	IP20	
Size	108*96*20mm	
Material	ABS	
Weight	About 120g(No battery)	
Warranty	12 months	

Table 2

Temperature & Humidity Data Logger

YDP-10E/10EB/700E/700EB Temp.
YDP-20/20B/20E/20EB Temp. & Humidity

• Temperature & Humidity Series

Model	YDP-20	YDP-20B	YDP-20E	YDP-20EB
Measuring Parameter	Temperature, Humidity			
Probe Type	Internal temperature & humidity probe		External temperature & humidity probe	
Unit	Temperature : °C, °F Humidity: %RH			
Measuring Range	Temperature : -30~+65℃ Humidity : 0~100%RH(Non-condensing)		Temperature : -40~+125℃ Humidity : 0~100%RH(Non-condensing)	
Measuring Accuracy	Temperature : ±0.3℃(-10~+65℃) ±0.5℃(Others) Humidity : ±3%RH(10~90%RH, 25℃) ±4%RH(Others)		Temperature: ±0.2℃(0~+65℃) ±0.5℃(Others) Humidity: ±3%RH(10~90%RH, 25℃) ±4%RH(Others)	
Resolution	Temperature : 0.1℃ Humidity : 0.1%RH			
Response Time(t ₉₀)	15 minutes		5 minutes	
LCD Refresh Interval	5 seconds			
Display Refresh Interval	5 seconds			
Storage Capacity	25920 or 500000 measurement data(Optional on the specified version of software)			
Display	Dot matrix LCD display			
Bluetooth & APP	Not Supported	Supported	Not Supported	Supported
Operation Temperature	-30~+65℃			
Storage Temperature	-30~+65℃(No battery)			
Power Supply	3 pcs 1.5V AAA dry cell battery; USB 5V/2A			
Battery Life	About 1 year(Condition: Battery capacity 1200mAh, environment temperature 25℃, turn off the backlight, beep and Bluetooth)			
Protection Class	IP20			
Size	108*96*20mm			
Material	ABS			
Weight	About 120g(No battery)			
Warranty	12 months			

Table 3