



Optimize lyophilization by thermal analysis!

Step 1
Completely programmable by users

Step 2
Leave it in any place.

Step 3
Press Start key 5 seconds to activate

Step 4
Press Stop key 5 seconds to stop. You may press "Mark" to make bookmark

Step 5
Press key to review max. & min. value counted from previous reset moment

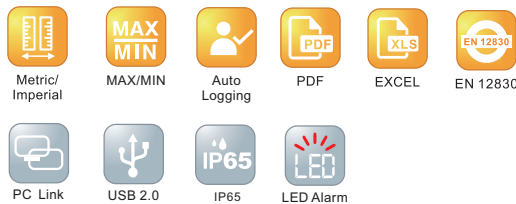
Step 6
Plug into PC to generate PDF and Excel report.

Ordering Code
 VZ88164AZ, 88164 logger (w/ probe)
 VZ88164PAZ, RTD probe
 VZ88164PAZ1, RTD probe for vaccine storage

*Available for EB project

Ultra low temperature logger w/PDF report 88164

- Plug & Play. PC software and driver are not required
- External RTD pt1000 probe for ultra low temperature, such as lyophilization
- Automatically generate PDF/Excel report. Report contains summary, graph and detailed data
- Completely user re-programmable: 6 languages, sampling interval, start delay, alarm delay, unit, alarm range, alarm type, password and user name
- One key operation to know leftover battery life time



Model	88164
Temp. range	NTC thermistor, -30.0~70.0°C , -22.0~158.0°F
Temp. resolution	0.1°C , 0.1°F
Temp. Accuracy	+/-0.5°C
Ext. Temp. range	Pt1000 sensor, -100.0~120.0°C , -148.0~248.0°F
Ext. Temp. resolution	0.1°C , 0.1°F
Ext. Temp. Accuracy	+/-0.5°C
	<i>(While logger is located in 10~40°C place)</i>
Sampling points	24000 Int. and 24000 Ext.
Meter size	110(L)*45(W)*17(T) mm
Operating temp.	-30~70°C (Logging status); room temp.(PC mode)
Operating RH%	Humidity < 90%
Storage temp.	-40~85°C
Storage RH%	Humidity < 90%
Weight	~50g
Battery	2PC 3.0V CR2032 3months life time
Sampling interval	30 seconds, 5, 10, 30, 60, 90, 120 minutes
Start delay	0, 5, 30, 45, 60, 90, 120 minutes and 24 hours
Alarm range	Programmable from -30 to 70°C
Alarm delay	0, 5, 30, 45, 60, 90, 120 minutes
Alarm type	Single Event, Cumulative, Disable
Operation keys	3 Keys (Start/Stop key & Mark key & Count key)
LED indicator	REC, High / Low alarm
Standard package	Logger, VZ88164PAZ external temp. Probe batteries, manual, paper box
Optional accessory	VZ88164PAZ1 Vaccine temp. Probe



EXTERNAL TEMP. PROBE
 P/N: VZ88164PAZ
 Color: black silicon cable
 Size: 2cm stainless probe w/o handle
 5mm diameter probe
 Cable: 200cm w/3.5mm jack



VACCINE STORAGE PROBE
 P/N: VZ88164PAZ1
 Vial: Empty transparent glass
 Color: black silicon cable
 Size: 2cm stainless probe w/o handle
 5mm diameter probe
 Cable: 200cm w/3.5mm jack

Please fill glycol (car antifreeze) locally