POCKET AIR FLOW METER

NEW



89101

89181

89081

Pocket Wind & Weather Datalogger
Model: 89101,89181, 89081

- **13-in-one.** Logger, wind speed, pressure, altitude, temperature, humidity, HI, WBGT, DP, WB, wind direction, Head/Cross/Tail wind, compass, all in your pocket.
- **12,000 records logger.** Adjustable interval, never miss a data point.
- **No software needed**.Plug in USB-C, grab your CSV file
- **Rechargeable via USB-C**. No more hunting for batteries.
- 2-button simplicity, IP65 rated housing design

Metric/ Imperial | MAX | AVG | Low Battery | Auto Power Off | Time Stamp | Auto Logging | EXCEL

IP65 | Tripod Hole | Backlight | USB 2.0

Model	89101	89181	89081
Wind speed range (6 units)	0.6~40.0m/s,2.1~144 km/h, 118~7874fpm, 1.3~89.5mph, 1~12bft, 1.2~77.8knot		
Wind speed accuracy	1.1~20 m/s:± (3% of reading +0.2 m/s), others not specified		
Air temp. range	-20~70.0°C		
Air temp. resolution	0.1°C/°F		
Air temp. accuracy	+/-1°C		
Air RH% range/resolution	0~100%RH, 0.1%RH		N/A
Air RH% accuracy	±3%RH(at 25°C, 20~80%RH), ±5%RH (at 25°C, 10~20%, 80~90%RH). others not specified		N/A
			N/A
Pressure range	300~1200hpa	N/A	N/A
Pressure resolution	1(300~1200hpa), 0.1(8.85~35.4inHg)	N/A	N/A
Pressure accuracy	±3hpa (at-10~60°C)	N/A	N/A
Altitude /res. /Accu.	-500~6000M,1M, 25M -1640~19685Ft,1 Ft, 82Ft	N/A	N/A
Compass	YES 0~360degree	N/A	N/A
Compass accuracy	+/-2 degree	N/A	N/A
Wind speed response time	averaging every 2 sec., update every sec.		
Temp. response time	2 minutes (typical)		
Air RH% response time	2 minutes (typical)		
Windchill display	YES		YES
Heat index display	YES		N/A
Dew point display	YES		N/A
WBGT display(accessory required)	YES		N/A
Time display	YES		YES
LCD size	18(H)x35(W)mm		
Logger memory size	12000 records, each contain full parameters		
Report format	CSV (Windows excel compatible)		
Operating temp.& RH%	-20~70°C Humidity<80%		
Storage temp. & RH%	15~35°C Humidity < 90%		
Meter size(mm)	148x550x20		
Weight	~100g		
Battery	3.7V rechargeable Li battery, 140 hrs life time, USB-C		
Standard Package	Meter(Li-Battery)/Manual/Strap/soft carry pouch		

Real wind direction, no extra accessories required.



Point into the wind until the reading settles, read wind direction instantly from the built-in compass. No extra accessories needed.



USB-C for power & software free data download

Ordering Code

VZ89101AZ, 13 in 1 wind & weather logger
VZ89081AZ, Wind+T weather logger
VZ89181AZ, Wind+T+RH weather logger
VZ89101AZ1, 89101 logger w/ WBGT globe
VZ89181AZ1, 89181 logger w/WBGT globe
VZ89101PAZ, WBGT globe
Vz89101PAZ1, replacement vane for 40 m/s

Available for EB project

Optional



REPLACEMENT MINI FAN
P/N:VZ89101PAZ1
For pocket weather logger 89xx1 series only
Fan size: 15mm diameter



WBGT Black Globe
P/N:VZ89101PAZ
*For 89101,89181 to calculate WBGT.
*40mm Diameter
*ABS

Pocket Wind & Weather Datalogger

Pocket Wind & Weather Datalogger — 13-in-one sensor, built for the field

The 89101 is a practical tool for users who need reliable field data without software friction, with lower long-term ownership cost and broader measurement coverage

No software needed — ever

Plug in via USB-C and a ready-to-use CSV file generate easily. No app to install, no account to create, no driver issues.

Stores up to 12,000 records with adjustable logging intervals. Data goes straight into Excel, Google Sheets, or any analysis tool — zero friction between field and office.

Index	Date	Time	Wind(m/s)	compass()	Baro(hpa)	Altitude(m)	Temp(°C)	RH(%)	Chill(°C)	HI(°C)	DP(°C)	WBT(°C)	WBGT(°C)
1	2026/08/31	18:07:53	0.5	79	981.3	256	25.3	68.2	28.8	26.3	19.0	20.9	17.2
2	2026/08/31	18:07:54	0.4	80	981.3	256	25.3	68.2	27.3	26.3	19.0	20.9	17.2
3	2026/08/31	18:07:55	0.3	76	981.3	256	25.3	68.1	27.4	26.3	18.9	20.9	17.2
4	2026/08/31	18:07:56	0.2	85	981.3	256	25.3	68	27.5	26.4	19.0	20.9	17.2
5	2026/08/31	18:07:57	2.0	88	981.4	256	25.3	67.9	27.6	26.3	18.9	20.9	17.2
6	2026/08/31	18:07:58	1.0	68	981.4	256	25.3	67.7	27.1	26.4	18.9	20.9	17.2
7	2026/08/31	18:07:59	0.7	93	981.3	256	25.3	67.4	27.2	26.4	18.9	20.9	17.1
8	2026/08/31	18:08:00	4.0	88	981.4	256	25.3	67.4	27.4	26.4	18.9	20.9	17.2
9	2026/08/31	18:08:01	1.5	82	981.4	256	25.3	67.3	26.8	26.4	18.8	20.8	17.1
10	2026/08/31	18:08:02	0.9	77	981.3	256	25.3	67.3	27.1	26.4	18.8	20.8	17.1
11	2026/08/31	18:08:03	1.3	94	981.3	256	25.4	67.2	27.3	26.4	18.8	20.9	17.2
12	2026/08/31	18:08:04	2.3	72	981.4	256	25.4	67.2	27.2	26.4	18.8	20.9	17.2

WBGT measurement

With the optional 40mm black globe accessory, the meter calculates Wet Bulb Globe Temperature — the gold-standard heat stress index used in occupational safety, sports medicine, and military standards.





USB-C rechargeable — no battery hunting

Charges via the same USB-C cable as a phone or laptop. Users in the field always have a way to top up — from a power bank, car charger, or any wall adapter.

No proprietary chargers, no battery hunting, no downtime waiting for a spare cell to arrive.



Impeller life tracking & replaceable impeller

High wind speeds >20 m/s accelerate bearing wear. The meter tracks cumulative high-speed runtime on the LCD — giving users visibility into sensor health before accuracy degrades.

The impeller is user-replaceable with no re-calibration required.

