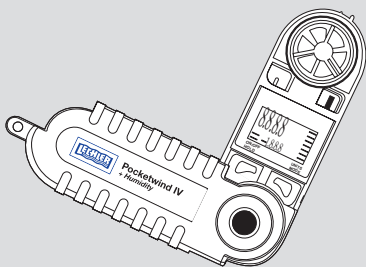


**ENGINEERING
YOUR SPRAY SOLUTION**



User Manual
POCKETWIND IV
Humidity
Version 10/2022



**CE UK
CA**

Introduction

Congratulations on your purchase of this unique Thermo-Anemometer, the meter features in measuring **Air Velocity, Temperature, Relative Humidity with Dew Point, Wet Bulb Temperature, delta T and compass function.** Simple and easy to operate, 6 wind units selectable.

A pocket-knife design makes it convenient and portable, easy to use and to get a precision reading.

Read thoroughly before using the meter, the unit was calibrated before shipment.

Features

- Windspeed: displays real time windspeed
- Max. Windspeed: display the max. windspeed
- Avg. Windspeed: display 10 sec
- Average windspeed
- Compass
- Temperature
- Windchill
- Humidity (sensor is pre-calibrated, recalibration possible)
- Wet Bulb Temperature
- Dew Point Temperature
- Delta T (Temperature)

Material supplied

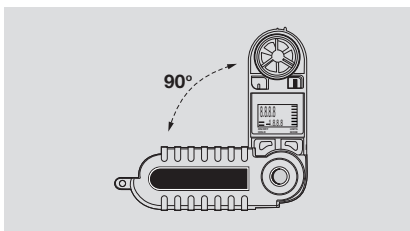
This package contains:

- The Anemometer
- Battery CR 2032
- Operation manual
- Strap
- Paper box

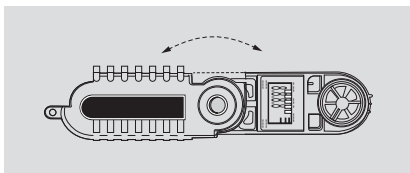
Range/Resolution

„RS“ stands for Resolution.

Unit		Range	RS
MPS	Meter per second	1.1~20.0	0.1
FPM	Feet per minute	60~3937	2
KNT	Knot	0.4~38.8	0.1
KPH	Kilometer per hour	0.8~72.0	0.1
MPH	Mile per hour	0.4~44.7	0.1
BF	Beaufort	1~8	1
RH %	Relative Humidity	0.1~99.9	0.1
DP	Dew Point	-20~50	0.1
WBT	Wet Bulb Temperature	-5~50	0.1
WCI	Windchill	-20~50	0.1
°C	Centigrade	-15~50	0.1
°F	Fahrenheit	-5~122	0.1



Detent at 90° for tripod mountable.

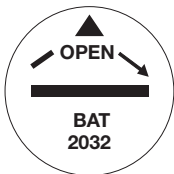


Detent at 180° for fully opened.

Power supply

The meter is powered by 1 pc CR 2032 Lithium battery. To check the battery when:

1. First time use
2. The low battery symbol appears on LCD
3. The meter can not power on. To install the battery:
 1. Turn off the meter.
 2. Turn the battery compartment cover in a CLOCKWISE direction to remove it.
 3. Replace the old battery with one new CR2032 lithium battery
 5. Make sure the battery is in place and the polarity is correct.
 6. Affix the battery compartment cover by turning it in a COUNTER-CLOCKWISE direction.

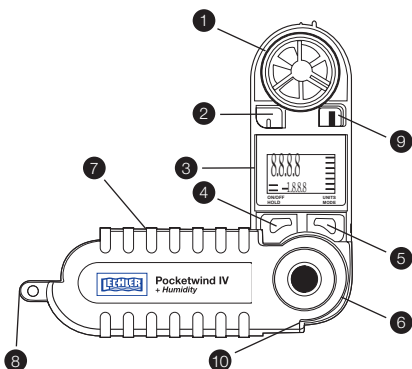


NOTE :

1. Dispose the lithium battery in accordance with local, state or national waste disposal codes.
2. Remove battery from instruments that you do not plan to use for a month or more. Do not leave battery in instrument.

Product information

1. Vane impeller
2. Wind direction indicator
3. LCD display
4. ON/OFF and MODE key
5. UNITS key
6. Battery compartment (on rear)
7. Swivel handle and storage case
8. Lanyard holder
9. Precision thermistor and Humidity sensor
10. Tripod mount (on the bottom)



Power on/off

To monitor the air velocity measurement, always position the meter to the air source from the rear of the meter .i.e. the display face to the user. Press the “⏻” key to turn on the meter. Auto power off in 5 minutes, or press “⏻” key for 3 seconds to turn the power off. To disable the auto power off, before power on, pressing “⏻” + UNIT key until a “n” appears on the screen and then release keys to return to normal mode.

Select mode

Press mode key to change the mode.

The sequence is **Current windspeed → Max. Windspeed → 10 sec average windspeed → Compass → Temperature → Windchill → Humidity → Wet Bulb → Dew Point → Delta T**

Delta T means the difference between the ambient air temperature and the dew point temperature.

Delta T: Standard indicator for acceptable spray conditions referring to evaporation rate and droplet lifetime. When delta T is high, the evaporative potential is high and droplet survival is lowered for smaller droplets. When applying plant protection products, Delta T should ideally be between 2 and 8 and not greater than 10 for coarse droplet spray applications such as with ID/IDTA, PRE, XDT and IDK/IDKN/IDKT nozzles.

Select unit

To switch temperature unit, press UNIT key under temperature mode.

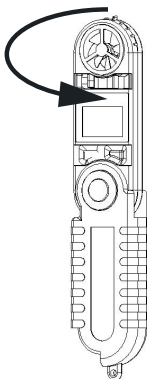
To switch windspeed unit, press UNIT key under windspeed mode.

Wind direction/Compass

Turn on the meter, press mode key to select and enter into Compass mode. Point the meter in the direction of travel or target and get a steady compass reading. Press and hold UNIT key until "Headtailcross" appear on LCD, compass reading will then flash three times. Release UNIT key and point the meter into the wind until you have a steady compass reading. Press and hold UNIT key until "Compass reading" start flashing. It flashes three times, and the wind meter will then display head or tail wind. Press UNIT key to see the cross-wind. To exit, press MODE key.

Compass calibration

To calibrate the compass, under compass mode, press MODE + UNIT key until 30 seconds countdown appears on LCD. Rotate the meter twice slowly according to the direction as below drawing, each turn takes 15 seconds.



After 2 turns (30 seconds), the LCD show "End" to indicate the calibration is completed.

NOTE:

1. Calibrate the compass after a new battery is installed.
2. To get an accurate compass reading, it is suggested to run this simple calibration procedure before use.

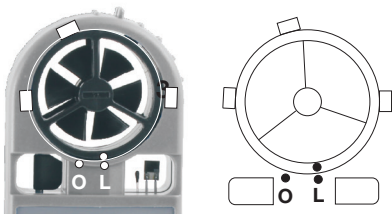
Units Conversion Table

	1 MPS	1 FPM	1 KNT	1 KPH	1 MPH
MPS	1	0.00508	0.5144	0.2778	0.4464
FPM	196.87	1	101.27	54.69	87.89
KNT	1.944	0.00987	1	0.54	0.8679
KPH	3.6	0.01829	1.8519	1	1.6071
MPH	2.24	0.01138	1.1523	0.6222	1

Vane replacement

NOTE:

The anemometer is very accurate at low and mid-range air speeds. Constant use at very high speeds, such as measurements out of a fast-moving car window may damage the impeller's bearing and reduce over-all accuracy.



To replace the impeller, use a small screwdriver to loosen the set-screw found on the back of the windmeter.

Then remove the impeller by twisting the impeller assembly clockwise (if you are facing the back of the windmeter) to the „O“ position marked on the rear of the meter. Install a new impeller by following these instructions in reverse.












Specification

Wind speed range	0.5~44.7M/H, 60~3937FT/M, 0.4~38.8KNT, 1.1~20.0M/S, 0.7~72.0KMH, 1~8BF
Wind speed accuracy	± (3% of reading + 0.2 m/s)
Air temp. Range	-15.0~50.0 °C
Air temp. Resolution	0.1 °C/°F
Air temp. accuracy	± 1 °C
Air RH% range	0.1 % RH~99.9 % RH
Air RH% resolution	0.1 % RH
Air RH% accuracy	± 3 % RH (at 25 °C, 10~90 % RH, others ± 5 % RH)
Temp. response time	60 seconds (typical)
Air RH% response time	60 seconds (typical)
LCD update	every second
Windchill display	YES, -20.0~50.0 °C
Dew Point temp. display	YES, -20.0~50.0 °C
Wet bulb display	YES, -5.0~50.0 °C
Compass display	YES, 0~360 degree
Compass accuracy	± 5 degree
LCD size	16 (H) x 28 (W) mm
Operating temp.	-15~50 °C
Operating RH %	Humidity < 80 %
Storage temp.	-20~50 °C
Storage RH%	Humidity < 90 %
Dimension(mm)	140x45x25 (90° folded) ; 235x45x25 (180° full opened)
Weight	~90 g
Battery	CR2032x1pc
Standard Package	Meter/Battery/Manual/ Strap/Paper box

Recommended duty limits for LU, AD, IDK/IDKN/IDKT, ID/IDTA, PRE and XDT flat spraytwinn flat spray nozzles as a function of wind speed:

Rule of thumb

The higher the wind speed, the larger the nozzle size in combination with minimal pressure is recommended. The day curve of wind speeds should be considered when spray application is planned.

 LU			
 AD			
 IDK IDKN IDKT			
 ID			
 IDTA			
 PRE			
 XDT			



Correct disposal of this product

(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)



This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life.



To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product (Applicable in the European Union and other European countries with separate battery return systems.)



This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working

life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Warranty

The meter is warranted to be free from defects in material and workmanship for a period of one year from the date of purchase.

This warranty covers normal operation and does not cover batteries, misuse, abuse, alteration, tampering, neglect, improper maintenance, or damage resulting from leaking batteries.

Proof of purchase is required for warranty repairs.

Return Authorization

Authorization must be obtained from the supplier before returning items for any reason. When requiring a RA (Return Authorization), please include data regarding the defective reason, the meters are to be returned along with good packing to prevent any damage in shipment and insured against possible damage or loss.

CE Certification

The meter conforms to the following standards:

- EN 50081-1/1992: EN 55022
 - EN 50082-1/1997: EN 55024
(EN 61000-4-2/-3/-8, ENV 50204),
- the meter complies with the essential protection requirements of Council.

Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Manufacturer declares and certifies that the products is compliant according to BS EN 61326-1 UK EMC – Electromagnetic Compatibility Regulations

Lechler Manuals

Other languages of the manual
for the Pocketwind IV (www.lechler.com)



Lechler App

iOS/Android



The Lechler agricultural nozzle app
makes it easy to select the right nozzle
for your application.

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