

Description

The 4500 Weather tracker is the most accurate, comprehensive and reliable hand-held portable weather device on the market. Every single unit supplied is calibrated for every single value, either directly against NIST-traceable standards or against an intermediary standard that is calibrated daily. Every unit is shipped with a FREE Certificate of Conformity that states what calibrations were performed, and the certified performance specifications. For the professional user, They can be absolutely sure that their weather readings are accurate to the stated specifications.

Features:

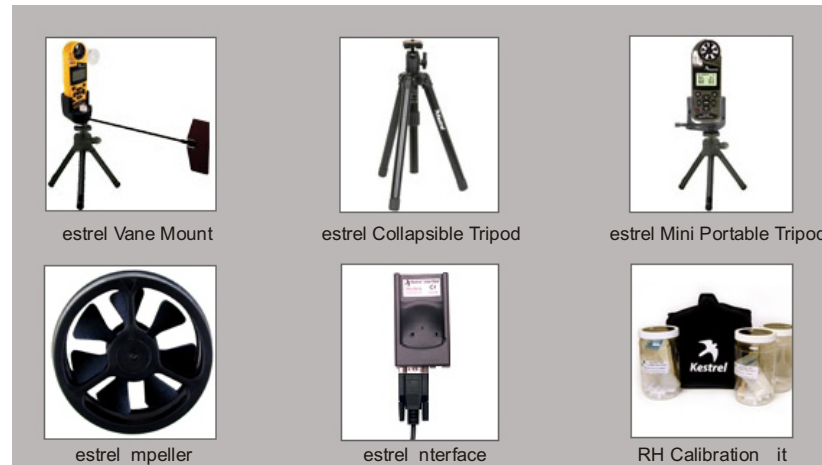
- Waterproof and floats
- Time and date
- Easy-to-read backlit display
- Data Logger (automatic and manual)
- Customizable data storage - 1400 data points
- Minimum, Maximum and Average values
- Multi-Function 3-line display
- Humidity sensor can be recalibrated in the field with our Relative Humidity Calibration Kit.
- Exterior temperature, humidity, and pressure sensors for fast and accurate readings.
- Customize screens to display user-selected measurements
- Graph and recall trends
- User-replaceable impeller
- Flip-top impeller cover allows use of other functions while protecting the impeller
- Data charting
- Upload to a computer (with optional interface)



estrel 4500 Measures :

- Heading(true & magnetic)
- Altitude Pressure trend
- Heat stress index
- Air, water, and snow temperature °F or °C
- Digital Compass
- Wind Direction
- Barometric pressure
- Dewpoint
- Wind Direction
- Crosswind
- Headwind/tailwindind Direction
- Wet bulb temperature
- Relative humidity in %
- Density altitude
- Wind chill
- Air, water, and snow temperature °F or °C

Accessories Components (optional)



Product Option : 4500 NV Weather tracker

The 4500NV model has the same features as the 4500 but has an olive color body with a night-vision preserving backlight which helps users to sustain natural night vision. The NV's backlight incorporates an optical filter to reduce overall brightness and minimize blue and green spectrum light to preserve night vision. Additionally, NV backlights are also much dimmer than a standard backlight, making it more difficult to detect with the naked eye in night operations.

Specifications :

| Measurement Response Time | Units | Operational Range | Resolution | Accuracy (+/-) | Specification Range |
|---|-----------------|---|------------|--|--|
| Wind Speed (Air Velocity) 1 Second | m/s | 0.4 to 60.0 m/s | 0.1 | Larger of 3% of reading or least significant digit | 0.4 to 40.0 m/s |
| | ft/min | 59 to 11.948 ft / min | 1 | | 59 to 787.7 ft/mn |
| | km/h | 1.0 to 2.18 o kh/h | 0.1 | | 1.0 to 144.0 km/h |
| | mph | 0.8 to 135.0 mph | 1 | | 0.8 to 89.0 mph |
| | knots | 0.6 to 118.3kt | 0.1 | | 0.6 to 78.0 kt |
| Wind Direction / Forward Heading 1 second | ° | 360° | 1 | 5° | 0 to 360° |
| | Cardinal Points | 360° | 16 Points | 5° | 0 to 360° |
| Temperature 1 second | ° F | -49.0 to 257.0 ° F | 0.1 | 1.8 ° F | -20.0 to 158.0 ° F |
| | ° C | -45.0 to 125.0° C | 0.1 | 1.0 ° C | -29.0 to 70.0 ° C |
| Relative Humidity 1 minute | % RH | 0.0 TO 100.0 % | 0.1 | 3.0 %rh | 5.0 TO 95.0 % non-condensing |
| Pressure 1 second | in Hg | 8.86 to 32.48 | 0.01 | 0.05 in Hg | At 77.0 ° F, < 19.700 ft |
| Altitude 1 Second | ft | -6000 to 30000 ft | 1 | 50 ft | At 77.0 ° F, < 19.700 ft. Max error +/- 90ft |
| | m | -2000 to 9000 m | 1 | 15 m | At 25.0 ° C, < 6,000 m. Max error +/- 30 m |
| | mph | 0.8 to 135.0 mph | 1 | 5% | 8.5 to 89.0 mph |
| Crosswind Headwind, Tailwind 1 second | ft/ min | 59 to 11.880 ft / min | 1 | 5% | 750 to 7832 ft / min |
| | km / h | 1.0 to 217.3 km/h | 0.1 | 5% | 13.7 to 143.2 km/h |
| | m/s | 0.4 to 60.0 m/s | 0.1 | 5% | 3.8 to 40.0 m/s |
| | knots | 0.6 to 117.3 kt | 0.1 | 5% | 7.4 to 77.0 kt |
| Wind Chill 1 second | ° F | 0.7 to 135.0 MPH, -49.0 to 257.0 ° F | 0.1 | 18 ° F | 1.8 to 89.0 mph, -50.0 to 50.0 ° F |
| | ° C | 0.4 TO 60.0 m/s, -45.0 to 125.0° C | 0.1 | 1.0 ° C | 0.4 to 40 m/s, - 45.6 to 10.0° C |
| Heat Index 1 minute | ° F | 0.0 to 100.0% RH, -49.0 to 257.0 ° F | 0.1 | 3.6 ° F | 70.0 to 130.0 ° F, 0 to 100% RH |
| | ° C | 0.0 to 100.0% RH, , -45.0 to 125.0° C | 0.1 | 2.0 ° C | 21.1 to 54.4° C , 0 to 100 % RH |
| 1 minute | ° F | 0.0 to 100.0% RH, -49.0 to 257.0 ° F | 0.1 | 3.6 ° F | -20.0 to 158.0 ° F, 20.0 to 95.0 % RH |
| | ° C | 0.0 to 100.0% RH, , -45.0 to 125.0° C | 0.1 | 2.0 ° C | 29.0 to 70.0° C , 20.0 to 95 % RH |
| Wet Bulb Temperature 1 minutes | ° F | -49.0 to 257.0 ° F,0.0 to 100.0% RH,8.86 to 32.48 in Hg | 0.1 | 3.6 ° F | 32.0 to 100.0 ° F, 5.0 to 95.0% RH,8.86 to 32.48 inHg, <19700 ft |
| | ° C | -45.0 to 125.0° C,0.0 to 100.0% RH,300.0 to 1100.0 hPa | 0.1 | 2.0 ° C | 0.0 to 37.8° C,5.0 to 95.0% RH,- 2000.0 to 9000.0 hPa, < 6000 m |
| Density Altitude 1 minute | ft | -49.0 to 257.0 ° F,0.0 to 100.0% RH,8.86 to 32.48 in Hg | 1 | 246 | 32.0 to 100.0 ° F, 5.0 to 95.0% RH,8.86 to 32.48 inHg, <19700 ft |
| | m | -45.0 to 125.0° C,0.0 to 100.0% RH,300.0 to 1100.0 hPa | 1 | 75 | 0.0 to 37.8° C,5.0 to 95.0% RH,- 2000.0 to 9000.0 hPa, < 6000 m |

calculated from the primary measurements of temperature, relative humidity and pressure. Air density density converted to e uivalent sea level elevation at the international Standard Atmosphere.

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| Max/ Avg Wind Speed (Air Velocity), Crosswind, Headwind / Tailwind | One-button clear and restart of Max Wind ust and Average Wind measurement |
| Data Storage / Display | Minimum, maximum, average and logged history stored and displayed for every measured value 2000 - point data logger with graphical display, logs 1400 data points. Auto data storage, interval settable from 2 seconds to 12 hours. Manual data capture |
| Data Upload | Requires optional PC interface (P -0830) and provide software RS-232 connection with USB adapter available |
| Display | Multifunctional , multi - digit programmable dot matrix display. |
| Display upload | 1 second |
| Display Backlight | Choice of aviation green or visible red (4000 to 4500 only electroluminescent backlight. Automatic or manual activation |
| Clock / Calender | Real-time hours minutes seconds clock, calendar, automatic leap-year adjustment. |
| Operational Temperature Range (LCD and Batteries) | The operational temperature range of the li uided crystal display and batteries is 14 ° F to 131° F / -10° c to 55° C. Beyond the limits of the operational temperture range, the unit must be mainted within range and exposed for minimum time necessary to take reading. |
| Storage Temperature | -22° F to 140° F / -20° c to 60° C |
| Auto Shutdown | User-selectable . 15 or 60 minutes with no key pressess or disabled. |
| Languages | English, French, erman, talian, Spanish |
| Certifications | CE certified. ndividually tested to ST-traceable standards (sritten cerficate of tests available at additional charge) |
| Batteries | 2 x AAA Alkaline (ncluded), provides 400 hours of usage (approx) +/- depending on backlight usage. |
| Environmental | Waterproof (P67 standard) Drop-tested (M L STD 810F, unit only. Substantial impact may damage replaceable impeller). |
| Dimensions | Unit 12.7 x 4.5 x 2.8 cm |
| Weight | Unit 102 g |