3) Select Operating Mode: Press and release [MODE] to change the operating mode. You can select a different operating mode at any time.

4) Select Measurement Scale: Hold down [ON] while pressing [MODE] to change the measurement scale. You can select a different scale at any time.

5) Measure wind speed, max and average: Simply point the unit into the air flow you wish to measure. Measure temperature and wind chill: The Kestrel’s temperature sensor is located in the right opening below the impeller. Because it is external to the case, you can take fast and accurate measurements by simply waving the unit rapidly back and forth or holding it into an air flow of at least 1 M/S (2 KT, 4 KM/H, 2 MPH or 197 FPM) and reading the display immediately. (The air flow ensures that the temperature sensor measures the temperature of the air, not the case.) Alternatively, you can take accurate readings with no air flow by allowing the case to reach the same temperature as the surrounding air. (If the case is much warmer or cooler than the air, this can take up to 30 minutes.)

### SPECIFICATIONS

#### Wind Speed Functions

- **Operating Modes:** Moving 3-second average (AVG), maximum 3-second gust since power on (MAX) and average since power on (AVG).
- **Units:** Knots (KT), meters per second (M/S), kilometers per hour (KM/H), miles per hour (MPH), feet per minute (FPM) and Beaufort (B).
- **On-axis Accuracy:** Greater of ± 3% or ± least significant digit.
- **Off-axis Drift:** -1% @ 5°, -2% @ 10°, -3% @ 15°.
- **Calibration Drift:** < 2% after 100 hours use at 7 M/S (~14 KT, 25 KM/H, 16 MPH or 1400 FPM).
- **Minimum Speed:** 0.3 M/S (~0.6 KT, 1.0 KM/H, 0.7 MPH or 59.0 FPM).
- **Maximum Speed:** 40 M/S (~78 KT, 144 KM/H, 89 MPH or 7877 FPM).

#### Temperature and Wind Chill Functions

- **Operating Modes:** Temperature (°C) and wind chill (°F).
- **Units:** Degrees Centigrade (°C) and degrees Fahrenheit (°F).
- **Accuracy:** ± 1.0°C.
- **Minimum Temperature:** -30°C [-22°F].
- **Maximum Temperature:** 70°C [158°F].

#### Display

- **Type:** Reflective 3½ digit LCD.
- **Digit Height:** 9 mm. [0.36 in.]
- **Update:** 1 second.
- **Range and Resolution:** Depends on measurement scale selected – see chart.

#### Environmental

- **Buttons:** Two sealed tactile rubber buttons control all functions.
- **Battery:** User-replaceable CR2032 coin cell. Typical life, 800 hrs.
- **Sealing:** Electronics enclosure IP67 – water resistant to 1 m. [3 ft.]. Floats.
- **Shock:** Drop tested to 2 m. [6 ft.].
- **Storage Temperature:** Prolonged exposure to temperatures below -20°C [4°F] or above 80°C [176°F] may cause permanent damage.

#### Physical

- **Impeller:** 25 mm. [1 in.] diameter, sapphire bearings, light weight. User-replaceable impeller/housing assembly.
- **Temperature Sensor:** Hermetically sealed precision thermistor.
- **Case:** Slip-on case prevents damage to display and moving parts.
- **Dimensions:** 122 x 42 x 14 mm. [4.8 x 1.7 x 0.6 in.]; case, 117 x 46 x 19 mm. [4.6 x 1.8 x 0.7 in.]; lanyard, 0.5 m. [10 in.].
- **Weight:** Unit, 43 g. [1.5 oz.]; case, 23 g. [0.8 oz.].
MAINTENANCE & TROUBLESHOOTING

Storing Your Kestrel
Avoid storing your Kestrel where it will be exposed to temperatures below -20°C (-4°F) or above 80°C (176°F) for extended periods of time. Doing so may permanently damage the LCD, electronics, battery or enclosure. (Note that the inside of a car parked in the hot sun can reach very high temperatures.) If the temperature of the actual LCD of your unit exceeds 70°C (158°F), it will temporarily become solid black until it cools down to below this temperature.

Use of the Lanyard and Cover
Your Kestrel is shipped with the slip-on covercaptivated by the lanyard to prevent loss. If you prefer to be able to remove the cover entirely, open the lanyard end cap with a small screwdriver, then remove the clip-lock. Slide the cover completely off the lanyard, then reassemble the clip-lock and lanyard end cap as before.

Replacing the Battery
When your display grows dim or blank, replace the battery. Use a large coin to open the battery compartment. Insert a new CR2032 coin cell (available wherever watch batteries are sold), positive (+) pole up. When replacing the battery door, be sure to keep the black rubber o-ring seated in the groove on the case back.

Why does the Impeller Appear Imbalanced?
It is NORMAL for the impeller to oscillate as it comes to a stop. It is NOT imbalanced. Rather, it contains a very small magnet which responds to the earth’s magnetic fields. This does not affect the accuracy of the windspeed readings because the magnetic field applies both a braking and an accelerating force which cancel each other. The impeller has been calibrated to be accurate to within at least ±3%.

High Speed Use
After several hours of sustained operation over 25 MP/H (~49 KT, 90 KM/H, 56 MPH or 4,923 FPM), the Kestrel will lose some time and handling. Please enclose Cheque or Money order for $8.00 to cover return post and batteries are not covered by this warranty. for a period of three (3) months only from time of repair or exchange. All repaired parts & exchange units shall be covered by the warranty above for the period of one (1) year from the original date of purchase. The obligations of Nielsen Kellerman Australia under this warranty are limited to repair and replacement of such part or parts of the unit as shall be found upon inspection to be defective in material or workmanship. This warranty does not cover damages due to misuse, abuse or accidents, negligence of the precautions, improper maintenance, cracked or broken cases, tampering, missing seals, batteries or return postage/freight. Any service carried out by a third party other than Nielsen Kellerman authorized service personnel during the warranty period voids the warranty.

Exchanges and returns are to be made within seven (7) working days and must be accompanied with proof of purchase. Items which have been opened, used or broken or which have parts missing will not be accepted for return or exchange. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurred. All goods paid by credit card will have their credit card credited less the above chargers. All warranty claims must be sent to our office for inspection. Proof of purchase must be supplied at time of warranty claim with goods. All goods returned within seven (7) days for credit will be charged a 10% restocking fee plus any freight charges incurre