**Kestrel 5200 Weather Meter**

**Description:**

Whether you're pouring concrete, balancing HVAC systems, or spraying crops, take the calculations and guess-work out of your job with integrated specialty calculations. No more guessing or using inaccurate data from miles away. Improved 2015 design!

**Quick Look:**

* Measures evaporation rate, air velocity, air flow, air density, relative air density, delta T, and much more. 17 measurements in all!
* Large, hi-res, hi-contrast, graphic display is perfectly readable in the brightest sunlight and is backlit for use in low-light conditions.
* Handheld, portable, data logger with on-screen graphing and measurement statistics.
* Optional LiNK connectivity powered by *Bluetooth Smart®* provides wireless communication to mobile devices and computers.
* Rugged (drop tested to MIL-STD-810G standards), waterproof (sealed to IP67 standards) and floats.
* Protective pouch, neck lanyard and Lithium AA battery included.
* 5-year warranty.

**Overview:**

*The next generation of professional environmental monitoring is the here with the Kestrel 5200 Weather Meter.*

The Kestrel 5200 provides the same trusted accuracy, reliability, and usability as the original Kestrel 4200 and 4300. With its complete suite of environmental measurements plus special features designed to aid HVAC technicians, construction and agriculture professionals, the Kestrel 5200 outperforms the competition as the most compact and complete environmental meter and data logger for all professional uses.

The new Kestrel 5 Series platform adds many new features and options. If you’re familiar with the Kestrel 4200 or 4300, the first thing you’ll notice is the larger, higher-resolution and contrast display and improved font readability. The Kestrel 5 series also includes a built-in dual color backlight, extra-strong polycarbonate lens and AA battery operation and offers optional LiNK iOS and Android wireless connectivity and app support. Like all Kestrel meters, the Kestrel 5200 is drop-proof, dust-proof, waterproof and able to withstand harsh environments without damage – so it can work as hard as you do, wherever you do. A range of carry pouch options makes it even easier to take your Kestrel meter with you.

The Kestrel 5200 offers advanced calculators and readings that are unique in the portable meter market and are designed to make your job easier. In addition to measuring current environmental conditions, the Kestrel 5200 tracks and logs over 10,000 sets of time-stamped data. Your data log can be transferred to a mobile device wirelessly with the LiNK wireless communication option and Kestrel LiNK app, or to a PC/MAC with either the accessory Kestrel LiNK Dongle or waterproof USB Data Transfer Cable (available separately).

Kestrels have been put to the test in some of the harshest conditions on the planet. U.S. Special Forces, combat weather teams, wildland firefighters, smoke jumpers, Mt. Everest expeditions and auto pit crews are just a few who rely on a Kestrel to provide them with the crucial environmental data they need. Watch the Weather Channel during a hurricane, and you’re sure to spot a Kestrel in action. Technicians have been purchasing Kestrel meters for their toolboxes for years, knowing they will provide the readings they need immediately and reliably. Construction managers all over the world have relied on their Kestrel meters to ensure work-site safety and cost-effective concrete pours. Farmers that need know a Kestrel meter can help them avoid property damage and maximize productivity. Shouldn’t YOU be working with Kestrel?

**Construction**

The Kestrel 4200’s Evaporation Rate calculator allow you to enter the temperature of your concrete mix (from a probe or IR thermometer), then measure conditions at the pour site. The Kestrel 5200 has the American Concrete Institute Evaporation Rate nomograph built in, and displays the Evaporation Rate right on screen with no calculation or error-prone interpolation. With that information in hand, decisions about additives to the mix or curing adjustments can be made, prevent costly plastic shrinkage cracks of the slab. Plus, the Kestrel 5200 allows you to monitor wind-loading on booms and cranes, and even track the heat index on your work site to keep your workers safe.

Pair the Kestrel 5200 with the optional Kestrel Vane Mount for hands-free measurements logged over the course of the day. And for maximum functionality, choose the Kestrel 5200 with LiNK to transmit live measurements to your phone or tablet when you’re within range. The Kestrel LiNK app will provide alerts on your mobile device to let you know when conditions have changed.

**HVAC**

Volume air flow couldn’t get any easier than this. Simply input the duct shape and dimensions and traverse the Kestrel 5200 across the duct. You’ll get instantaneous and average volume air flow without the need for any geometry or calculations. readings that greatly assist in commissioning and performance balancing HVAC systems. While not a replacement for a balometer, the Kestrel 5200 is far less expensive and can save you time and money. The Kestrel 5200 also offers every commonly-used measurement of moisture content in air, making life easy to determine dehumidification needs.

For ducts that are out of reach, use any extension pole with a ¼x20 threaded mount and Kestrel 5 Series Clip with the Kestrel 5200 with LiNK. This model will wirelessly transmit real-time data to the Kestrel LiNK app for iOS and Android.

**Agriculture**

Delta T allows you to accurately assess acceptable spraying conditions to ensure you're within guidelines and help you select the right spray nozzle. The Kestrel 5200 calculates and logs on-site Delta T without any additional user input. Based upon ambient temperature and dew point, Delta-T provides guidance on the evaporation rate of sprayed chemicals. When combined with the Kestrel 5200’s average wind and max wind gust measurements, agriculture professionals can ensure they spray safely, every time. Use an accessory carry pouch to keep your Kestrel handy on your belt, ready to go before any spraying operations.

Farmers need a host of other environmental measurements, all of which are at the tips of your fingers with a Kestrel 5200. Use the volume air flow measurement to assess barn ventilation systems. Monitor temperature, humidity and heat index to ensure your animal facilities and feed mixtures are set up for maximum productivity. Measure micro-climates on your farm to ensure crops are sited where mold and disease will be minimized.

**What’s New in the Kestrel 5200:**

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| --- | --- |
| **Features** | **Benefits** |
| Kestrel LiNK for mobile | Android and iOS apps put crucial information at your fingertips with real-time remote data viewing on phones and tablets up to 100’ away. Kestrel LiNK also provides easy data export, threshold alerts and simple firmware updates. |
| LiNK wireless connectivity powered by Bluetooth Smart | Robust, easy connectivity to both iOS and Android mobile devices as well as Windows and Mac computers. (Computers require optional Kestrel USB Dongle.) |
| USB Data Transfer Cable | Low profile, lightweight, waterproof cable provides wired connectivity to Windows and Mac computers for fast data uploads and firmware updates. Compatible with every model in the Kestrel 5 Series. |
| Sleek, rugged tripod vane mount | Small, secure, robust vane mount turns any Kestrel 5 Series meter into a portable weather station that remains oriented into the wind. (Included in some models where noted, otherwise sold as optional accessory.) |
| Large, high contrast screen | Easily readable text in almost any setting, including bright sunlight, with more visible information on the screen at all times. This high-resolution display is easy on the eyes, allowing you to get more information from customizable user screens, charting and graphing options without causing eye strain or fatigue. |
| Dual color backlight | Toggle backlight color between standard white and night-vision-preserving red (NV). The red NV backlight features an optical wavelength selected to help users sustain natural night vision and reduced brightness to avoid detection during night maneuvers. |
| Secure battery door | Large, O-ring sealed door provides easy, tool-free battery access. |
| Scratch and breakage-resistant window | Rigid, polycarbonate lens with scratch-coating protects the display from damage. |
| Corrosion-resistant battery compartment | Battery is isolated from electronics, reducing damage in the event of a battery leak. (Note – Lithium AA batteries strongly recommended to avoid battery leakage altogether.) |
| Intuitive user-interface | Icon-based navigation, intuitive keypad, and multiple languages make the Kestrel a breeze to use. |

**Measurements:**

Air Density

Air Flow

Air Velocity

Altitude

Barometric Pressure

Density Altitude

Delta T

Dew Point Temperature

Evaporation Rate

Heat Stress Index

Humidity Ratio (Grains)

Relative Air Density

Relative Humidity

Station Pressure (Absolute Pressure)

Temperature

Wet Bulb Temperature (Psychrometric)

Wind Chill

**Who’s Using the Kestrel 5200 Weather Meter:**

Construction and Concrete Pouring

Crop Dusting

Education and Classroom Use

Facilities Management

Farming & Agriculture

HVAC & Air Conditioning Balancing

Remediation

Research & Technology

**Works with Compatible Apps:**

**Kestrel LiNK for Windows & Mac**

Simple communication to Windows and Mac computers is provided through the optional LiNK .USB Dongle or USB Data Transfer Cable. Download your data to view, analyze and archive. Enables firmware update of Kestrel 5 series meters.

**Kestrel LiNK for iOS & Android** (*Android coming soon!*)

Wirelessly connect with iOS and Android devices. When in range, view real-time measurements, receive on-screen alerts and download your data. Logged data can be viewed, analyzed, archived and shared via e-mail, Facebook and Twitter. Enables firmware update of Kestrel 5 series meters. NOTE: Range up to 100’ line of sight – reduced by walls and obstructions.

**Models & SKUs:**

* Kestrel 5200 Professional Weather Meter: 0852HVG
* Kestrel 5200 Professional Weather Meter with LiNK: 0852LHVG

**Includes:**

* Neck Lanyard
* AA Lithium Battery (Average Life 400 Hours)
* Protective Drawstring Pouch
* Certificate of Conformity (with complete specifications)
* Instruction Manual
* Five Year Warranty

**You may Also Be Interested in:**

Kestrel Vane Mount

Belt Carry Pouch

USB Data Transfer Cable

Kestrel LiNK Dongle for PC or Mac

Spare/Replacement Wind Impeller