



The Kestrel 3500-IS Intrinsically Safe Pocket Weather Meter is a critical instrument for use in underground mine ventilation operations.

Split second decisions in the field leave no time for guesswork. Get every environmental condition in seconds with the reliable Kestrel 3500-IS.

A rugged, multi-function wind and weather meter that measures all the environmental variables, including air velocity (wind speed), wet / dry bulb temperature, relative humidity, heat stress index, barometric pressure, dew point and more.

Every unit is fully tested for measurement accuracy and waterproof integrity and is calibrated to NIST traceable standards.

Measures

- »Current/Average Wind Speed
- »Maximum Wind Gust
- »Wet / Dry Bulb Temperature
- »Relative Humidity
- »Heat Stress Index
- »Wind Chill
- »Dew Point
- »Barometric Pressure
- »Pressure Trend
- »Altitude

Features

- »3-Button Control
- »Real-time clock
- »Drop-Tested, MIL-STD-810G
- »Waterproof and floats
- »Easy-to-read display
- »Data hold function
- »CR2032 Coin Cell Battery (Average Life 300 Hours)
- »Neck Lanyard
- »Forecast weather with pressure trend indicator
- »Patented Impeller and Sensor Technology
- »Reliable, portable and easy to use
- »Slip-On Protective Cover

Intrinsic Safety

The Kestrel Model 3500-IS Intrinsically Safe Pocket Weather Meter holds Certificate of Conformity for Explosion-protected Electrical Equipment (to Ex ia I IP55) issued by SIMTARS.

Patented Impeller and Sensor Technology

Features a large, impeller mounted on a sapphire jewel bearing, which means it starts rotating with the slightest puff of air, and this unique impeller is user-replaceable, too, which means it can easily be replaced if it is damaged or worn.

If your application demands regular calibration, simply pop in a new impeller and the instrument is restored to like-new factory calibration standards.

The humidity sensor can be recalibrated in the field using the optional Relative Humidity Calibration Kit.

Kestrel 3500-IS Specifications

Sensors			
SENSOR	ACCURACY	RESOLUTION	SPEC. RANGE
Wind Speed / Air Speed	Larger of 3% of reading, least significant digit or 20 ft/min	0.1 m/s 1 ft/min 0.1 km/h 0.1 mph 0.1 knots 1 B	0.6 to 40.0 m/s 118 to 7,874 ft/min 2.2 to 144.0 km/h 1.3 to 89.5 mph 1.2 to 77.8 knots 0 to 12 B
Ambient Temperature	0.5 °C	0.1 °C	-29.0 to 70.0 °C
Relative Humidity	3%RH	0.1 %RH	5 to 95% 25°C non-condensing
Pressure	1.5 hPa mbar 0.044 inHg 0.022 PSI	0.1 hPa mbar 0.01 inHg 0.01 PSI	25°C 750-1100 hPa mbar 22.15-32.48 inHg 10.88-15.95 PSI

Calculated Measurements			
MEASUREMENT	ACCURACY	RESOLUTION	SENSORS EMPLOYED
Altitude	typical: 23.6ft/7.2 m from 750 to 1100 mBar max: 48.2 ft/14.7 m from 300 to 750 mBar	1 ft 1 m	Pressure, User Input (Reference Pressure)
Barometric Pressure	0.07 inHg 2.4 hPa mbar 0.03 PSI	0.01 inHg 0.1 hPa mbar 0.01 PSI	Pressure, User Input (Reference Altitude)
Delta-T	2.3.2 °F 1.8 °C	0.1 °C	Temp, RH, Pressure
Dew Point	3.4 °F 1.9 °C 15-95% RH. Refer to Range for Temperature Sensor	0.1 °C	Temp, RH
Heat Index	4.0°C	0.1 °C	Temp, RH
Wet Bulb Temp. - Psychrometric	1.8 °C	0.1 °C	Temp, RH, Pressure
Wind Chill	0.9 °C	0.1 °C	Wind Speed, Temperature

