



REED Instruments R1600 Smart Series Vane Anemometer Bluetooth Instruction Manual

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REED Instruments R1600 Smart Series Vane Anemometer Bluetooth



Instrument Description Product Information

R1600 Vane Anemometer

The R1600 Vane Anemometer is a handheld device used for measuring air velocity, temperature, and humidity. It has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. The device is compliant with Part 15 of the FCC Rules and Innovation, Science and Economic Development Canada's licence-exempt RSS(s). The device comes with a backlit display, data hold, and datalogging capabilities.

Features

- Air velocity, temperature, and humidity measurement
- Backlit display
- Data hold
- Datalogging capabilities
- Measures air velocity (m/s, ft/min, km/h and mph), air temperature and humidity
- Easy to operate, designed for one hand operation

- Integrated display provides flexibility for use without mobile device
- Magnetic backing allows instrument to be mounted to metallic surfaces
- Data Hold function
- Low battery indicator and auto shut off
- Tripod mount for long-term monitoring When used with REED Smart Series App:
- Calculates air volume
- Real-time data logger
- User selectable sampling rate from 1 to 120 seconds
- Bluetooth® 5.0 provides connectivity to instruments up to 246' (75m) away
- Connect, measure and datalog up to 6 instruments, simultaneously
- Easy setup with automatic app integration for compatible REED Smart Series instruments
- Export data via Excel or PDF and create custom reports that can be emailed from mobile device

Specifications

Air Velocity (Anemometer)

Measuring Range:

Real-Time Clock and Date Stamp:	Yes (with Smart Series App)
Customizable Sampling Rate:	Yes
Overrange Indicator:	Yes
Auto Shut-off:	Yes (adjustable)
Tripod Mountable:	Yes
Magnetic Backing:	Yes
Low Battery Indicator:	Yes
Power Supply:	4 x AAA Batteries
Battery Life:	Approx. 50 hours (sampling time dependent)
Connectivity:	Bluetooth® 5.0
Bluetooth® Range:	Up to 246' (75m)
Max # of Connected Devices:	6
Software:	REED Smart Series App (iOS and Android)
App Supported Languages:	English, French
Product Certifications	CE, UKCA, FCC, IC ID
Maximum Operating Altitude:	6561' (2000m)
Operating Temperature:	-4 to 122°F (-20 to 50°C)
Storage Temperature:	-4 to 140°F (-20 to 60°C)
Operating Humidity Range:	10 to 90%
Storage Humidity Range:	10 to 90%
Dimensions:	6.9 x 1.5 x 1" (175 x 38 x 25mm)
Weight:	3.8oz (108g)

Measuring Range:	fpm: 118 to 4921 m/s: 0.6 to 25 km/h: 2.1 to 90 mph: 1.3 to 55.9
Accuracy:	fpm: $\pm(40\text{fpm} + 3.5\%)$ m/s: $\pm(0.2\text{m/s} + 3.5\%)$ km/h: $\pm(0.8\text{km/h} + 3.5\%)$ mph: $\pm(0.5\text{mph} + 3.5\%)$
Resolution:	fpm: 1 m/s: 0.1 km/h: 0.1 mph: 0.1
Temperature	
Measuring Range:	-4 to 140°F (-20 to 60°C)
Accuracy:	-4 to 32°F (-20 to 0°C): $\pm 1.6^\circ\text{F}$ (0.8°C) 32 to 140°F (0 to 60°C): $\pm 1^\circ\text{F}$ (0.5°C)
Resolution:	0.1°F/°C
Humidity	
Measuring Range:	0 to 100% RH
Accuracy:	20 to 80% RH: $\pm 3.5\%$ rdg. 0 to 20% & 80 to 100% RH: $\pm 5\%$ rdg.
Resolution:	0.1% RH
General Specifications	
Display:	Multi-Line Enhanced Black Twisted Nematic (EBTN) LCD
Display Size:	1.3" (34mm)
Backlit Display:	Yes
Data Hold:	Yes
Datalogging Capabilities:	Yes (with Smart Series App)

- Air Velocity (Anemometer) Measuring Range:
- Accuracy:
- Resolution:
- Temperature Measuring Range:
- Accuracy:
- Resolution:
- Humidity Measuring Range:
- Accuracy:
- Resolution:
- General Specifications:
- Display:
- Display Size:
- Backlit Display:
- Data Hold:
- Datalogging Capabilities:

Product Usage Instructions

1. Turn on the device by pressing the power button.
2. Select the mode you wish to measure using the mode button.
3. Aim the device at the target and press the measurement button.
4. Read the measurement displayed on the screen.
5. To hold the reading, press the data hold button.
6. To log the data, use the datalogging capabilities of the device.
7. After use, turn off the device to conserve battery life.

Introduction

Thank you for purchasing your REED R1600 Vane Anemometer, Bluetooth® Smart Series. Please read the following instructions carefully before using your instrument. By following the steps outlined in this manual your meter will provide years of reliable service.

Product Quality

This product has been manufactured in an ISO9001 facility and has been calibrated during the manufacturing process to meet stated product specifications. If a certificate of calibration is required, please contact the nearest authorized REED distributor or authorized Service Center. Please note an additional fee for this service will apply.

Safety

- Never attempt to repair or modify your instrument. Dismantling your product, other than for the purpose of replacing batteries, may cause damage that will not be covered under the manufacturer's warranty. Servicing should only be provided by an authorized service center.
- Magnetic field warning; please keep a minimum distance of 4 inches (10cm) between pacemaker and meter.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

FCC RF Exposure Statement

This product complies with FCC portable RF exposure limit set forth for an uncontrolled environment and is safe for the intended operation as described in this manual.

IC statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This Class B digital apparatus complies with Canadian ICES-003. CAN ICES-003(B)/NMB-003(B)

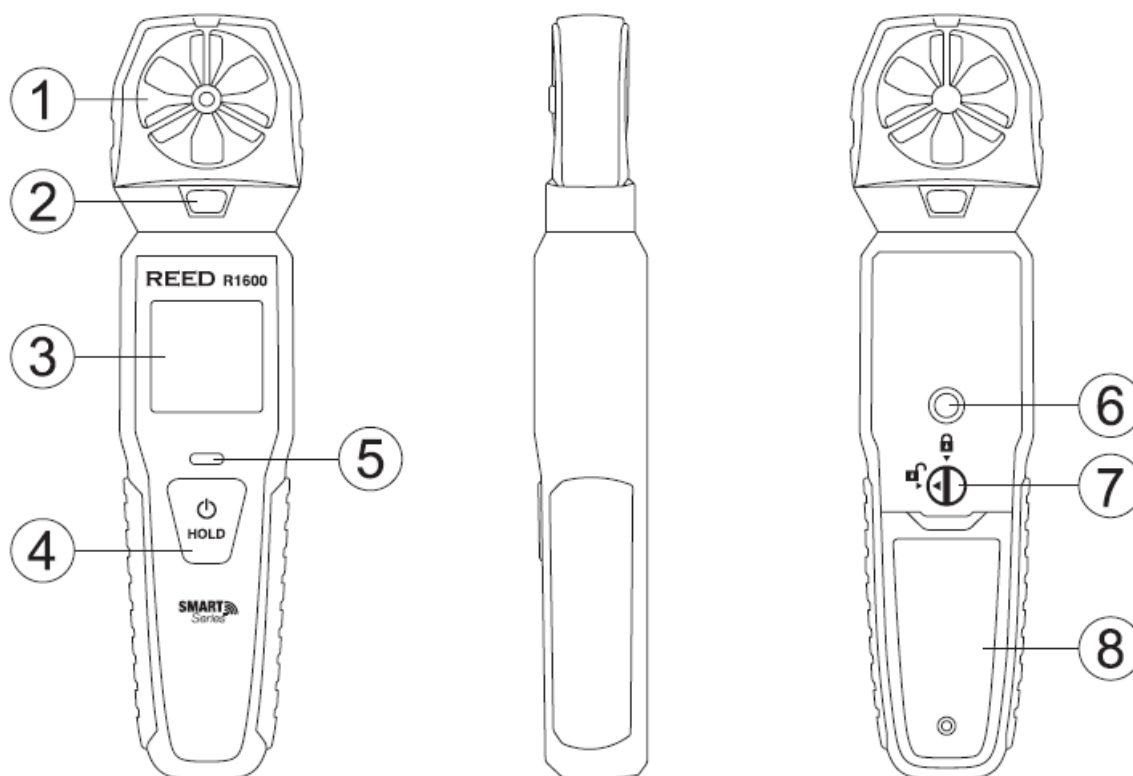
IC RF Exposure Statement

This product complies with the Canadian portable RF exposure limit set forth for an uncontrolled environment and is safe for the intended operation as described in this manual.

Included

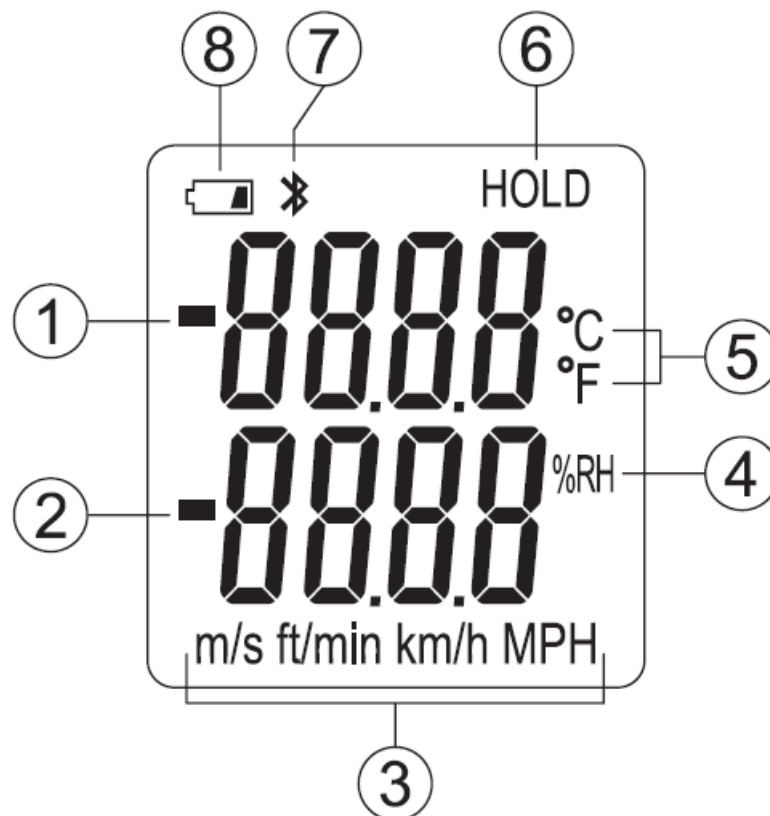
- Vane Anemometer
- 4 x AAA Batteries
- Protective Cap

Instrument Description



1. Air Flow Sensor
2. Temperature and Humidity Sensor
3. LCD Display
4. POWER/HOLD Button
5. Bluetooth® Status Indicator Light
6. Tripod Mounting Screw
7. Battery Cover Lock
8. Battery Cover

Display Description



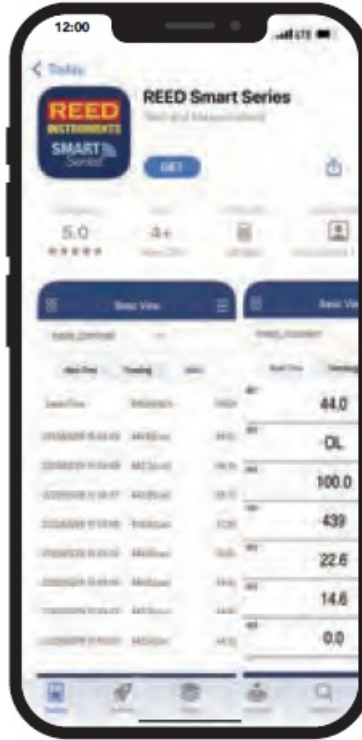
1. Temperature Measurement Value
2. Air Velocity/ Relative Humidity Measurement Value
3. Air Velocity Unit of Measure
4. Humidity Unit of Measure
5. Temperature Unit of Measure
6. Data Hold Indicator
7. Bluetooth® Indicator
8. Low Battery Indicator

REED Smart Series App

REED Smart Series instruments can be connected wirelessly to your smartphone or tablet. All measurement data is transmitted via Bluetooth® to the free REED Smart Series app. The app allows users to analyze data, generate reports and send information by email directly from a mobile device.

App Features

- Bluetooth® 5.0 provides connectivity to instruments up to 246' (75m) away
- Connect, measure and datalog up to 6 instruments, simultaneously
- Easy setup with automatic app integration (Bluetooth® pairing not required) readings, tables, or graphs
- Save data in PDF or Excel Format
- Create custom reports that can be saved on a mobile device or sent by email



To learn more and download the REED Smart Series App from the Google Playstore (Android) or Apple App Store (iOS), visit www.REEDInstruments.com/smartseries. You can also search for the “REED Smart Series” app directly from your device.

Full specifications and Operating System compatibility can be found on the product page at www.REEDInstruments.com/r1600. If you have specific questions related to your application and/or questions related to software setup and functionality, please contact the nearest authorized distributor or Customer Service at info@reedinstruments.com or 1-877-849-2127.

Operating Instructions

Power ON/OFF

Turn the meter ON by holding down the POWER button for approximately 2 seconds. To turn the meter OFF, press and hold the POWER button for approximately 4 seconds.

Backlight

After powering the meter ON, the LCD Backlight will turn on automatically. In order to preserve battery power, the LCD will turn off after approximately 15 seconds. To turn the screen back on, press the POWER button.

Establishing Bluetooth® Connection

1. In order to establish Bluetooth® connection, the REED Smart Series App must be installed on your mobile device.
2. When the App is open and the meter is powered on, the meter will automatically attempt to establish connection with the App. Until the connection is established, the Bluetooth® status indicator light will flash blue.
3. When connection is successful the Bluetooth® status indicator remains blue and the the current readings are automatically displayed in the App.

REED Smart Series meters feature Bluetooth® 5.0 connectivity which does not require meters to be paired with the device. If the App is open and the meter is powered on, a connection will automatically be established.

Selecting the Temperature and Air Velocity Unit of Measure

1. When the meter is powered on, press and hold the POWER button until SET appears, indicating the meter is in unit of measure selection mode.
2. To toggle between Fahrenheit and Celsius press the POWER button again. Once the desired temperature unit of measure is selected, press and hold the POWER button again to enter air velocity unit of measure mode.
3. To toggle between m/s, ft/min, km/h and MPH, press the POWER button again. Once the desired air velocity unit of measure is selected, press and hold the POWER button again to resume normal operation.

Enabling/Disabling Data Hold

1. Press the HOLD button to freeze the current reading on the display.
2. Press the button again to resume normal operation.

Toggling between Relative Humidity and Air Velocity Mode

The LCD will always display temperature on the primary line. The secondary line can display relative humidity or air velocity. Press the POWER button twice to toggle between relative humidity and air velocity.

Enabling/Disabling Auto Power OFF

To preserve battery life, the meter is programmed to turn itself off after 30 minutes of inactivity.

Note: The Auto Power OFF feature can be disabled through the App. (See REED Smart Series Software Guide located in the “Menu” section of the App for additional details.)

For additional information on App features including sampling rate setup, data logging, data analysis, export and report generation please see the REED Smart Series App Software Guide at www.REEDInstruments.com/smartseries

Battery Replacement

When the low battery icon appears on the LCD display, the batteries will need to be replaced. In order to replace the batteries, proceed with the following steps:

1. Turn off the meter.
2. Unlock the battery compartment located at the back of the meter.
3. Remove the battery cover.

4. Replace the 4 x AAA batteries.
5. Secure the battery cover and lock it in place.

Applications

- HVAC/R Servicing
- Detecting Filter Blockage
- Deriving volume flow of air registers
- Monitoring the air flow of ventilation system
- Flow Hood Monitoring

Accessories and Replacement Parts

- **CA-52A:** Small Soft Carrying Case
- **R8888:** Medium Hard Carrying Case
- **R1500:** Tripod

Don't see your part listed here? For a complete list of all accessories and replacement parts visit your product page on www.REEDInstruments.com.

Product Care

To keep your instrument in good working order we recommend the following:

- Store your product in a clean, dry place.
- Change the battery as needed.
- If your instrument isn't being used for a period of one month or longer please remove the battery.
- Clean your product and accessories with biodegradable cleaner. Do not spray the cleaner directly on the instrument. Use on external parts only.

Product Warranty

REED Instruments guarantees this instrument to be free of defects in material or workmanship for a period of one (1) year from date of shipment. During the warranty period, REED Instruments will repair or replace, at no charge, products or parts of a product that proves to be defective because of improper material or workmanship, under normal use and maintenance. REED Instruments total liability is limited to repair or replacement of the product. REED Instruments shall not be liable for damages to goods, property, or persons due to improper use or through attempts to utilize the instrument under conditions which exceed the designed capabilities. In order to begin the warranty service process, please contact us by phone at 1-877-849-2127 or by email at: info@reedinstruments.com to discuss the claim and determine the appropriate steps to process the warranty.

Product Disposal and Recycling

Please follow local laws and regulations when disposing or recycling your instrument. Your product contains electronic components and must be disposed of separately from standard waste products.

Product Support

If you have any questions on your product, please contact your authorized REED distributor or REED Instruments Customer Service by phone at 1-877-849-2127 or by email at info@reedinstruments.com.

Product specifications subject to change without notice.

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- Vane Anemometer
- Thermo-Hygrometer
- Sound Level Meter
- Light Meter
- Thermocouple Thermometer

Connect wirelessly to your smartphone or tablet via the REED Smart Series App

- Bluetooth® 5.0 provides connectivity to instruments up to 246' (75m) away
- Analyze data and create custom reports that can be saved on a mobile device or sent by email

TEST & MEASURE WITH CONFIDENCE



Access our
Product Catalog

Over 200 portable test and measurement instruments


Access our Product Catalog







- www.REEDInstruments.com
- 1.888.610.7664
- www.calcert.com

- sales@calcert.com

Documents / Resources

	<p>REED Instruments R1600 Smart Series Vane Anemometer Bluetooth [pdf] Instruction Manual</p> <p>R1600 Smart Series Vane Anemometer Bluetooth, R1600, Smart Series Vane Anemometer Bluetooth, Vane Anemometer Bluetooth, Anemometer Bluetooth, Bluetooth</p>
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References

-  [Calcert](#)
-  [REEDInstruments.com - Test and Measure with Confidence](#)
-  [REED R1600 Vane Anemometer, Bluetooth Smart Series](#)
-  [REED Smart Series Instruments](#)

Manuals+.