

FLUKE®

Environmental expert series

Introducing Fluke tachometers, vane anemometer, light meter, and sound level meter.





Vane anemometer

Fluke 925 Vane Anemometer

Easy-to-use and economical anemometer

The Fluke 925 is an economical and durable vane anemometer designed to measure wind speed, air flow and wind temperature conveniently. With a separate air flow sensor and display, the Fluke 925 provides the user the flexibility to measure air flow in a variety of locations. Vane anemometers are well suited to measure air flow in residential and commercial buildings as part of regular maintenance checks.

Features:

- Ability to measure wind speed in feet per minute or meters per second
- Data capture using one button and the ability to average multiple readings
- Min and Max alarm setting to alert the user when limits have been met
- Durable over mold housing to protect the unit from drops
- 1 M extension of sensor from display to ensure air flow is captured in hard to reach locations

Main technical parameters:

Fluke 925			
Wind speed measurement	Range	Resolution	Accuracy
m/s	0.40 to 25.00 m/s	0.01 m/s	±2 % of full scale
ft/m	80 to 4900 ft/m	1 ft/m	±2 % of full scale
Air flow measurement	Range	Resolution	Accuracy
CMS (cubic meter/second)	0.01 to 99.99 m3/s	0.01	0 to 9.999 m2
CFM (cubic foot/minute)	1 to 9999 ft3/m	1	0 to 9.999 ft2
Wind temperature measurement	Range	Resolution	Accuracy
Wind temperature	0 °C to 50 °C	0.1 °C	±0.8 °C
Product specification			
Display	Dual-screen 4 digit (9999 points) LCD screen		
Measurement unit	Wind speed: ft/m; m/s Air flow: CMS (m3/s) and CFM (ft3/m) (cubic foot/minute) Wind temperature: °C and °F		
Data holding	Lock the displayed readings		
Sensor	Wind speed/air flow sensor: conventional angular vane arm, lubricating ball bearing Wind temperature sensor: precision thermistor Minimum/maximum value storage, recording and viewing the minimum reading and maximum reading		
Average reading storage	Single point (2 hours at most) or multiple points (8 readings at most)		
Auto power-off	Enter the sleep mode after 20 minutes (can be disabled) to save power		
Power supply	9V battery (high capacity alkaline battery)		
Battery life	100 hours		
Weight	363 g, including the battery and sensor		
Dimensions	181 × 71 × 38 mm		
Sensor head diameter	70 mm		
Warranty period	1 year		



Applications:

- Clean rooms or other locations with installed filter systems
- Environmental Health and Safety personnel, construction research institutions
- HVAC system supplies, installers or maintenance technicians
- Pharmaceutical industry, food and beverage industry, electronic manufacturing, building fire protection

Ordering information

Fluke 925

- Vane anemometer
- Instruction guide

On the work site, speed measurements need to be performed visually with the equipment in operation in order to diagnose equipment failure in real time. Fluke provides various speed test products to suit your needs.

Fluke tachometers include professional functions and test accessories and provide the best solution to your field test.

Tachometer

Fluke 930 Non-contact Tachometer Fluke 931 Contact and Non-contact Dual-purpose Tachometer

The Fluke 931 is a handheld tachometer, which integrates the contact and non-contact speed measurement functions and can accurately measure the revolutions per minute (RPM) or surface speed on rotating machinery. Where equipment needs quick troubleshooting to diagnose problems, the Fluke 930 or 931 is the right tool for the job. The Fluke 930 is equivalent to a Fluke 931 with the ability to measure via stroboscope in non-contact mode only, at the same accuracy and for a lower price. With the ability for contact measurement and non-contact combined, the Fluke 931 provides greater flexibility for the professional technician.

Features:

- 6-digit backlit display for easy data visualization
- Signal detection reminder minimizes false readings
- Maximum/Minimum/Average value and final readings
- Small size with rugged housing over mold to protect against drops
- Easy switching of the contact and non-contact measurement modes (Fluke 931 only)
- Different speed measuring heads to adapt to different measurement occasions (Fluke 931 only)
- 1-year warranty

Main technical parameters:

Fluke 930 and 931	
Rotation speed measurement	
Range	Optical (non-contact) measurement: 1 to 99999 revolutions/minute Contact measurement: 1 to 19999 revolutions/minute (Fluke 931 only)
Precision	±0.02 % RD+1
Sensing distance	(optical) 500 mm
Specifications	
Battery type	(2) 1.5V LR6 (alkaline) AA battery
Battery life	About 40 hours
Operating temperature	0 °C to 50 °C
Storage temperature	-20 °C to 70 °C
Weight	250 g
Dimensions	175 × 60 × 28 mm
Warranty period	1 year



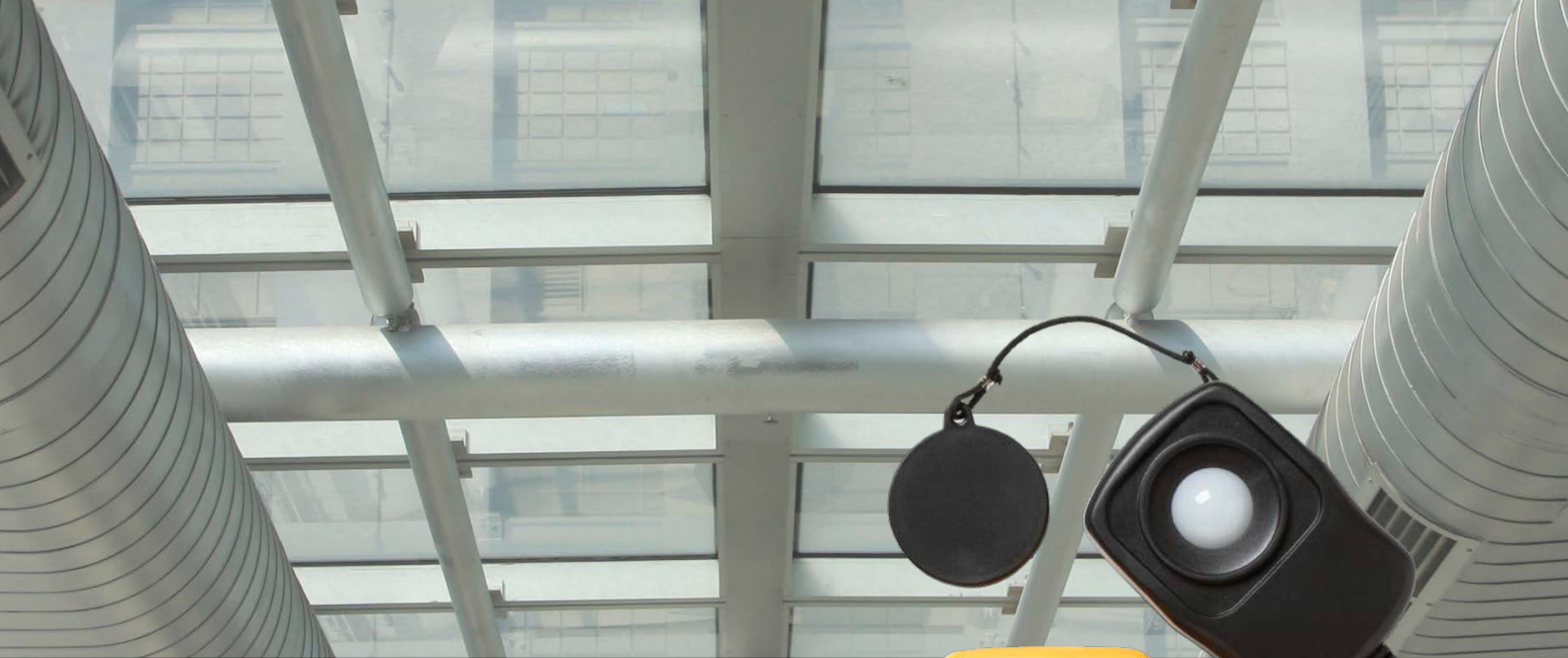
Applications:

- Heavy manufacturing environments, e.g. automotive, textile, pulp and paper, metalwork
- Water purification plants
- Machining and chemical manufacturing plants
- HVAC compressors for industrial systems

Ordering information

Fluke 930 and 931

- 0.1 m wheel
- Conical speed measuring head
- Inner cone speed measuring head
- Lengthening rod
- 10 reflective stripes



Luminometer

Fluke 941 Light Meter

Designed for use in multiple environments, the Fluke 941 light meter is easy to use and provides clear data display for a variety of applications.

The Fluke 941 is a handheld luminometer that can measure visible light sent from a variety of light sources, to include fluorescent, metal halide, high pressure sodium, or incandescent lamps. With an extension cord to the light meter and separate display the Fluke 941 provides a handheld tool to accurately measure light in multiple environments. The Fluke 941 is a portable tool that measures light up to 20,000 fc of lux with an accuracy of .01 fc/lux.

Features:

- Measure in lux or footcandles, with one button to switch between display options
- Measuring range up to 20,000 lux or foot candles
- Data hold to freeze reading on the digital display
- Min/max ability to show high and low readings
- Auto power off to save battery life
- Includes protective sensor cap

Main technical parameters:

Fluke 941	
Measurement parameter	
Range	20, 200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000FC (footcandle)
Precision	±3 % (at 2854 °K – calibrated by the common incandescent lamp) ±6 % other visible light sources Cosine error 30° ±2 % 60° ±6 % 80° ±25 % Cosine angle corrected according to the grade A general specifications of JIS C 1609:1993 and CNS 5119 A
Specifications	
Sampling rate:	2.5 times/second for the digital display
Display:	3.5 digit 1999–point LCD screen
Sensor:	Silicon photoelectric diode and optical filter
Environment:	For indoor use
Power supply:	9V NEDA 1604, IEC 6LR61
Battery life:	200 hours; in about 6 minutes after auto power-off
Dimension (main unit)	130 × 63 × 38 mm
Dimension (sensor)	80 × 55 × 29 mm
Weight:	220 g (including the battery)
Warranty period:	1 year



Applications:

- Clean room environments, agriculture, HVAC operations
- Room illumination assessment as part of environmental health and safety reviews
- Light source quality and troubleshooting

Ordering information

- Fluke 941**
- 941 luminometer
 - 9V battery
 - User manual



Sound level meter

Fluke 945 Sound Meter

The Fluke 945 Sound Level Meter has been designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and quality control in a wide variety of industrial environments. It offers two types of measurements: A weighting and C weighting. The A weighting is for general noise sound level and the C weighting is for measuring sound level of acoustic material control in various environments. The Fluke 945 conforms to the IEC651 Type 2, ANSI S1.4 Type 2, and JISC1502 requirements for Sound Level Meters.

Features:

- Data storage
- Max/Min
- Frequency weighting ranges: A, C
- Auto power off
- Auto ranging
- Backlit display

Main technical parameters:

Fluke 945			
Measurement parameter	Range	Resolution	Accuracy
Measurement of environment noise (A weighted)	30 to 130 dB	0.1 dB	±1.5 dB (ref 94dB@1KHZ)
Measurement of mechanical noise (C weighted)	35 to 130 dB	0.1 dB	±1.5 dB (ref 94dB@1KHZ)
Specifications			
Display	0.1 dB steps on 4 digit LCD screen		
Frequency response	From 31.5 Hz to 8 kHz		
Max/Min recording with memory logging	Up to 14,000 records		
Recording intervals	From 1 second to 8 hours		
USB interface	14,000 records datalogger		
Safety standard	CE, designed to meet IEC651 Type2, ANSI S1.4 Type 2		
Microphone	0.5 inch electric condenser microphone		
Time weighting	Fast slow		
Dimensions	200 x 56 32 mm		
Warranty	1 year		



Applications:

- Environmental Health and Safety testing and verification
- Sound testing for education environments
- Heavy and light industry sound testing
- Healthcare environment testing
- Safety testing

Ordering information

- Fluke 945**
- 945 Sound Level Meter
 - 9V battery
 - User manual

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up and running.®*