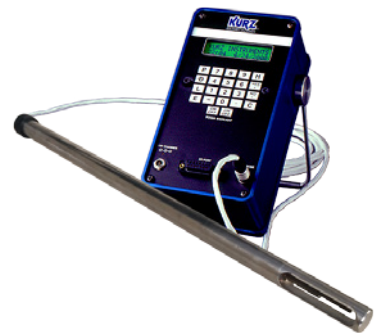


## Portable Flow Meters SERIES 2440



### Applications

- Industrial hygiene
- Survey tests
- HVAC supply and return ducts, grills, diffusers, and testing
- Flow balancing
- Clean rooms
- Fume hoods
- Combustion air velocity and flow calibration
- Duct, stack, and pipe velocity traverses
- Coal-fired power plant stacks
- Research and development
- General purpose air flow measurements



The Series 2440 provides air flow measurements in mass, volume, and velocity. The Series is designed for measuring ducts, pipes, stacks, vents, insitu calibrations, and airflow traverses. Models range from lab grade to industrial high heat.

- Excellent sensitivity to low velocities
- Insensitive to dirt and particulates in the flow stream
- Insensitive to installation angle
- 1,500-point data memory for recording traverses and other measurements
- Configuration data is stored in CMOS RAM or SRAM.
- Internal and exportable data logging
- Data is averaged (based on a fixed number of records or a fixed elapsed time) after capture.

**Kurz Instruments, Inc.**  
2411 Garden Road  
Monterey, CA 93940  
800-424-7356 | 831-646-5911  
[www.KurzInstruments.com](http://www.KurzInstruments.com)



## SERIES FEATURES & SPECIFICATIONS

- **Easy-to-use interface**  
Backlit display / keypad  
2-lines of 16-characters each
- **Configuration upload/download**
- **User-configurable English or metric units for mass flow rate, mass velocity, and process temperature**  
°C, °F, KGH, KGM, NCMH, NLPM, NMPS, PPH, PPM, SCFH, SCFM, SCMh, SFPM, SLPM, SMPS
- **Excellent resolution and noise rejection**  
16-bit ADC, 50 Hz or 60 Hz
- **Time constant (configurable)**  
0 to 600 seconds
- **User-selectable flow display (scrolling or static)**
- **All-metal aluminum display module**
- **Battery charger, 100-240 VAC, 50/60 Hz**  
Nickel-Metal-Hydride 4.5 AH high-performance battery, 2.5 hour /full charge
- **Rugged carrying case**
- **European Union CE compliance**  
EN 50081-1 for emissions, EN 50082-2 for immunity, EN 61000-4-5 for surges

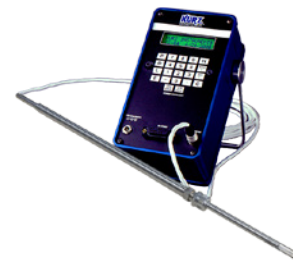
## OPTIONS

- **Digital outputs**  
Modbus, RS-232C, or RS-485 serial port support; allows external/remote terminal configuration and data log access via a Windows computer
- **Analog 4-20 mA outputs**  
Configurable as velocity, flow rate, or temperature; 12-bit resolution, maximum loop resistance is 500 at 18 VDC, 800 at 24 VDC, 1400 at 36 VDC; NAMUR NE43 compliant
- **Hardware accessories**  
Available hardware includes sensor support extensions, extension cables, batteries, battery chargers, and adapters

## Model 2441 Laboratory-Grade Applications

The Model 2441 Lab Grade Portable Flow Meter is excellent and well-suited for industrial hygiene, research, and HVAC measurements.

- 13" sensor support length
- 1/4" diameter sensor support
- Sensors temperature rated -40°F to 257°F (-40°C to 125°C)



## Model 2442 HVAC Applications

The Model 2442 HVAC Portable Flow Meter is designed specifically for HVAC applications. The bendable gooseneck design and telescopic wand allows maximum flexibility in obtaining accurate traverse measurement in typically difficult locations.

- 47" sensor support length when fully extended
- 1/4" diameter sensor support
- Sensors temperature rated -40°F to 257°F (-40°C to 125°C)



## Model 2443 Small-to-Medium Pipe & Duct Applications

The Model 2443 Flow Meter is a small, rugged sensor designed for velocity and temperature traverses in small- to medium-sized pipes/ducts, such as in industrial ventilation systems.

- 13" sensor support length; probe shield can be reversed to extend support length up to 22"
- 3/8" diameter sensor support
- Sensors temperature rated -40°F to 392°F (-40°C to 200°C)



## Model 2444 Large Pipe & Duct Applications

The Model 2444 Heavy Industrial Portable Flow Meter provides the flexibility for a wide variety of field measurement applications because of multiple 16" sections that can connect up to 64.5" long.

- Up to four extension support lengths: 16.5", 32.5", 48.5", 64.5"
- 3/4" diameter sensor support
- Sensors temperature rated -40°F to 392°F (-40°C to 200°C)



## Model 2445 High-Temperature Applications

The Model 2445 High-Temperature Portable Flow Meter is designed for very high temperatures applications, such as coal-fired power plant stacks, and primary and secondary air ducts.

- Five fixed support lengths: 24", 36", 48", 60", 72"
- 3/4" diameter sensor support
- Mineral-insulated sensor cable
- Sensors temperature rated -40°F to 932°F (-40°C to 500°C)



Refer to the Series 2440 Technical Specifications for complete details.

