

## Flowmeters and level monitors

Kurz provides flow meter products of outstanding quality and exceptional dependability that exceed the most challenging industry requirements. In dry or wet gas environments, Kurz flow meters define the industry standard for the highest repeatability, accuracy, and reliability. Applications that call for general information, exacting accuracy, or system protection rely on Kurz devices for real-time sensor and electronics diagnostics, and dependable temperature compensation. After more than 35 years of manufacturing flow monitoring equipment, Kurz continues its commitment to supplying innovative devices while encouraging the world to look at thermal mass devices as a cost-effective alternative to other flow measurement technologies.

### Thermal Flow Meters for Monitoring Dry and Wet Gas Environments

#### Single-point insertion flow meter

The Kurz Series 454FTB-WGF is the first thermal mass flow meter engineered specifically for wet gas, condensing gas, and biogas environments. The patent-pending design processes the dry flow signal independent of the effects of moisture in the process gas stream, making it the ideal flow meter for digesters, landfills, animal feeding operations, wet stacks, and mining.



The Kurz Series 454FTB is the premier single-point insertion thermal mass flow meter for industrial gas flow measurements. The 454FTB supports process temperatures from -40° C to 260° C and from -40°C to 500° C, process pressure ratings up to 300 PSIG, and a velocity range from 0 to 24,000 SFPM



#### Multipoint Insertion Flow Meters

K-BAR 2000B multipoint insertion flow meter uses up to four sensors for measurement redundancy and to ensure accuracy. Its rugged design withstands the high stress and high vibrations found in large industrial stacks and ducts that commonly have wide-ranging velocity and temperature profiles. The K-BAR 2000B supports process temperatures up to 260°C or up to 500°C.



#### In-line flow meter

The Series 534FTB The Kurz 534FTB is designed with built-in inlet and outlet piping reducers/expanders to produce exceptional immunity to upstream and downstream flow disturbances caused by elbows, valves, and line size changes. The patented technology results in output with exceptional low end-to-end pressure drop and the fastest response to velocity and temperature changes in the industry.



The Series 504FTB in-line flow meter is designed for applications where flow disturbances or line size changes are not an issue. The 504FTB is available in 10 models for inline sizes from ½" to 4" pipes.



#### Portable flow meter

The Model 2445 High-Temperature Portable Flow Meter is designed for very high temperatures (500°C) applications, such as coal-fired power plant stacks, and primary and secondary air ducts. The Model 2445 is available in five fixed lengths from 24" to 72" with a 3/4" diameter sensor support. The rugged all-welded construction and large size of the Model 2445 make it ideal for dirty and corrosive environments. It includes an



all-metal display module, battery charger, carrying case, and several accessories.

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. The Model 2444 works with high temperatures up to 200°C. It includes an all-metal display module, battery charger, carrying case, and several accessories.



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. The 13" long probe shield can be reversed to extend the 3/8" sensor support. It includes an all-metal display module, battery charger, carrying case, and several accessories.



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 location, such as ceilings, supply grates, and open areas. The wand reaches 47" when fully extended. It includes an all-metal display module, battery charger, carrying case, and several accessories.



The Model 2441 Lab Grade Portable Flow Meter is excellent and well-suited for industrial hygiene and HVAC measurements. The dual-sting ceramic sensor is mounted in a 1/4" diameter, 13" long sensor support with a shield/extender. The ceramic sensor provides a faster response time than the standard sensor. It includes an all-metal display module, battery charger, carrying case, and several accessories.



The Series 490-IS incorporates Kurz sensor expertise into an inexpensive miniature thermal air velocity meter that you can take anywhere. The 490-IS is ideal for velocity measurements for EPA and OSHA emission regulations for a wide variety of vapor emission sources. The 490-IS is intrinsically safe.



## Mass flow computer

The Series 155 Mass Flow Computer is available in five models, depending on the number of flow meters and sensors in your flow meter system. The Series 155 Mass Flow Computer integrates the functions of temperature and flow measurement, closed loop flow control, flow totalization, alarms, input/output calibration, and data acquisition for up to 22 sensors.

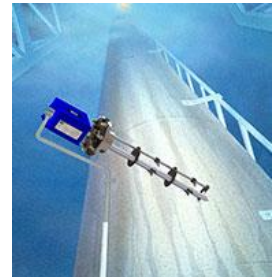


## Isokinetic sampling system

Kurz offers a complete isokinetic sampling system to ensure true sample composition — from stack flow monitoring and sample capture to sample flow control. The Kurz Emissions and Sampling System provides accurate sample collection for environmental, process, and nuclear applications. It eliminates under- or over-reporting gas or particulate constituents. A wet stack option is available.

The Isokinetic Sampling System includes:

- The KBAR-2000B multipoint insertion flow meter
- The Series 220 Isokinetic Sampling System
- A Kurz 504FTB or 534FTB in-line flow meter
- The Kurz 730 Rotary Ramp Valve provides fine control of the sample flow
- The Series 155 Mass Flow Computer



## Special solutions are available for industrial sectors like:

- Coal power
- Incinerators
- Landfills
- Metal
- Nuclear
- Petrochemicals
- Pulp & Paper
- Wastewater

## Other flow meters

based on ultrasonic, pressure difference, coriolis, magnetic induction, are also available.

## Level monitors based on all known principles:

- Ultrasonic
- Radar
- Capacity
- Floater

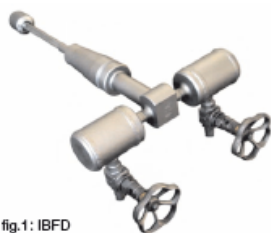


fig.1: IBFD

