

ONLY KURZ PUTS SOLID-STATE AIR VELOCITY TECHNOLOGY IN THE PALM OF YOUR HAND!

Introducing the Kurz 480, an air velocity meter rugged enough to handle everyday HVAC and industrial applications, yet loaded with convenient features for unheard-of ease of operation—all in a package compact enough to fit in the palm of your hand!

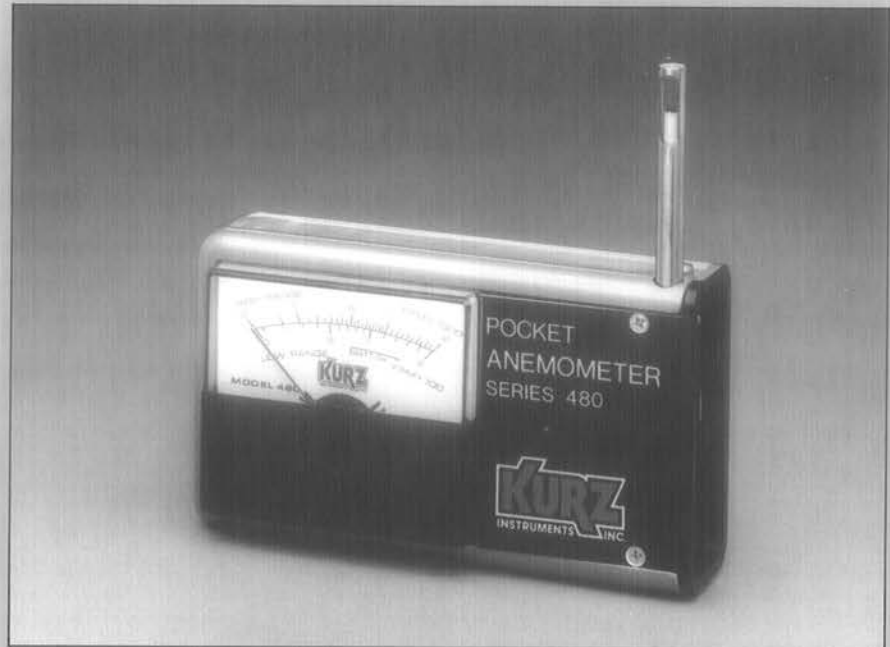
The 480 uses the same rugged steel housing as Kurz's popular 490 Mini-Anemometer. Unlike the 490, however, the 480 probe stores inside the unit when not in use, then pops up to make an air velocity measurement.



AS SENSITIVE AS IT IS RUGGED.

Housed within the 480's rugged shell are simplified, carefully engineered electronics that, combined with the inherent sensitivity of the 480's thermal sensor, provide outstanding performance. Wisps of air as slow as 20 ft./min. can be accurately measured, as well as gale-force blasts of 10,000 fpm. The 480 Series are available to cover a multitude of velocity ranges; you choose the model that best suits your application. Metric versions calibrated in meters/seconds are also available.

All 480s feature dual velocity ranges, allowing the flexibility you need to accurately measure a wide range of velocities.



NBS-TRACEABLE CALIBRATION.

Few manufacturers offer NBS-traceable calibration even as a high-priced option. With a sharp eye to quality and fastidious calibration, Kurz includes NBS-traceable documentation with each and every unit sold. No one else has such pride and confidence in quality control. Experience the Kurz Difference!

SOLID STATE TECHNOLOGY MEANS NO MOVING PARTS.

Like all Kurz flowmeters, the Series 480 works on principles of heat transfer rather than differential pressure. That means no moving parts are involved. You get accurate, trouble-free service in a compact, light-weight package.

When in use, the tip of the 480 sensor is maintained at a constant temperature

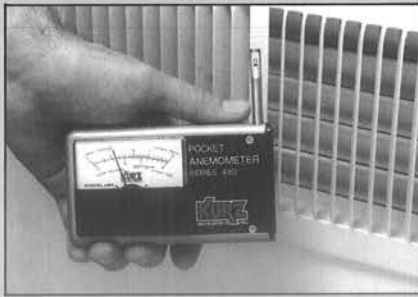
above the ambient gas temperature. Standard feet-per-minute is measured by sensing the energy carried away from the heated velocity sensor. The 480's thermal sensor automatically compensates for fluctuations in air temperature and barometric pressure. No more signal integration from multiple sensors. You read air flow directly. Accurately. Efficiently.

ENERGY EFFICIENT DESIGN.

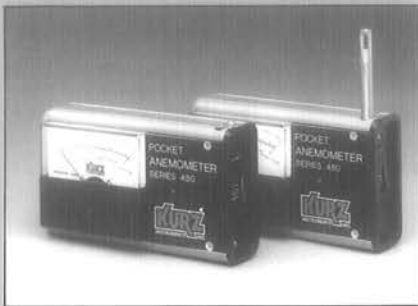
A red LED light serves as a reminder to shut the 480 off when not in use. Low power draw means the unit consumes its alkaline AA batteries very slowly, allowing months of typical use. An optional NICAD battery kit/charger is available for even more longevity.

KURZ
INSTRUMENTS, INC.

SERIES 480
AIR VELOCITY METER



The 480 is unusually simple to operate. Just turn it on, hold the probe in the airflow and read the meter. No training is necessary. Simplicity, versatility, sensitivity, accuracy. No other portable air velocity meter compares; and Kurz quality ensures you'll enjoy the pleasure and utility of using your 480 Mini-Anemometer for many years to come.

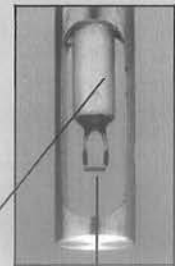


SERIES 480
Shown with Probe Extended
and Probe Retracted

HOW THE KURZ SENSOR WORKS.

The air velocity sensor used in the 480 is called the Kurz "DuraFlo-LP"™ low-power sensor. It consists of a velocity sensor winding and a temperature sensor winding. The velocity sensor is heated, and senses air velocity by measuring the cooling effect of air molecules passing over the heated winding. The temperature sensor is an active part of the air velocity sensing circuit, and compensates the circuit over a wide range of air temperatures.

The velocity sensor always runs at a set temperature above the ambient (we call it the overheat), and the power required to maintain that overheat is the measure of air velocity.



Temperature
Sensor

Velocity
Sensor

SPECIFICATIONS

MODEL NUMBER

480	481	483	480M	481M	483M	481H
FPM	FPM	FPM	MPS	MPS	MPS	MPH
0-200	0-600	0-1,000	0-1	0-3	0-6	0-6
0-2,000	0-6,000	0-10,000	0-10	0-30	0-60	0-60

OPERATING TEMPERATURE RANGE

-20°C to +60°C

ACCURACY

±(3% reading + 1% full scale)

REPEATABILITY

±.5% of full scale for each range

RESPONSE TIME

Probe: 50 milliseconds;

Meter Readout: 1 second

POWER

Four (4) AA size Alkaline cells. Cells easily replaced by removal of meter enclosure.

METER READOUT

Rugged 2⁵/₈" × 2⁵/₁₆" taut band panel meter

PROBE

Stainless steel probe body. 0.25" diameter, 2" long. Features Kurz "DuraFlo-LP"™ low power sensor.

CONTROLS

Mechanical and electrical zero controls; high/low range, battery test (▲) and on/off switch.

CARRYING CASE

9"W × 6¹/₂"D × 3¹/₄"H, high impact polyethylene

SIZE

4.25" long, 2.75" high, 1.125" wide.

NET WEIGHT/SHIPPING WEIGHT

12 oz. (25 oz. including case);

2 lbs. shipping weight.

WARRANTY

1 full year, parts and labor, except for batteries.

OPTIONS

Optional nickel-cadmium batteries and charger. Add -NC.

IMPORTANT NOTICE

Specifications are subject to change without notice. Kurz Instruments reserves the right to make engineering changes and product improvements at any time and without prior notice. Consult your local Kurz representative or a factory application engineer for information regarding current specifications.

SPECIFICATION SHEET NO. 480-12/86 C.P.



CALL A KURZ APPLICATION ENGINEER FOR IMMEDIATE SERVICE

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