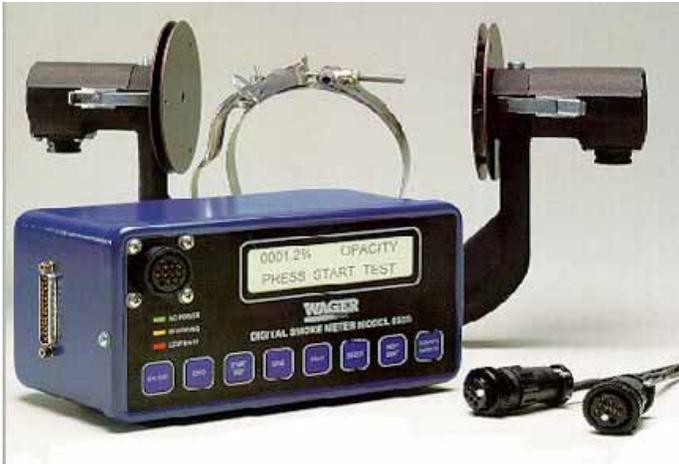


Model 6500 Smoke Meter

Full Flow or Partial Flow Head

Simple to Operate
Extremely Portable
SAE J1667 Compliant



The Model 6500 smoke (opacity) meter provides a simple and accurate means of detecting and measuring the opacity of smoke emitted by a diesel engine. It encourages proper maintenance for improved fuel economy and protection of the environment.

Used by fleets, regulatory agencies and OEM laboratories around the world.

Design Features

The Model 6500 consists of a sensor head (either partial flow or full flow) that connects to the control unit.

A light sensor reads the opacity of the emissions and relays the readings to the control unit's display. Both the SAE J1667 test ("snap-idle") and the "follow-mode" test (continuous readings under load) can be performed.

Test results can be printed individually on the system's impact printer. Up to 100 tests can be stored, or printed in a batch operation.

Sensor Heads

Both a full flow and partial flow sensor head are available. An extension pole with strong magnets allows the operator to take the measurement from the ground.

A pulsed green LED emitter as the monitor's light source ensures the $\pm 1\%$ accuracy of readings in artificial light or even in direct light.

Each sensor head attaches to exhaust stacks of many different configurations, up to 6" \varnothing . It employs a single pass system and has an operating distance of 7".

Connecting Cable

A 25' flexible, single line cable allows complete mobility test bay or fleet maintenance areas. (*25' extension available for testing busses).

Control Unit

The control unit is housed in a lightweight, weather-resistant aluminum case. The front panel is a membrane keypad with eight tactile feedback push buttons. It can be placed in the cab for tests under load.

Display

Easy to read, backlit alphanumeric liquid crystal display, prompts the operator through the test sequences. Battery condition will also be displayed through a series of colored LED's.

Power

12V sealed lead-acid cell; which operates approximately 40 hours before a recharge is required.

Accuracy

All readouts are within \pm one digit. Operating temperature 32° - 120° F. The unit is initially calibrated under clear stack conditions, with checks at 0% and 100% opacity. The meter can be precisely calibrated with a .2 neutral density filter, which is supplied with the system.

Reliability

Minimum drift, zero stability less than 1% per use. Pulsed green LED has infinite life expectancy. Resolution 1 digit (.01% of full scale). Meets SAE J1667 specification for full flow meters Appendix C using the required algorithm. Ambient Temperature correction (required in AZ) available through the software provided.

Low Maintenance

All solid state electronics. Lenses are accessible by simple snap closures. Baffle plates on interior faces of monitor help maintain lens cleanliness. External air connection ports.

Rugged Construction

For portability and protection, the control unit is housed in a lightweight, weather-resistant aluminum case. The control unit and all accessory items (except the extension pole) are packed into a lightweight, high impact plastic case. The total weight is approximately 25 lb.

Warranty:

One year from date of purchase, parts and labor.

Now Available:

**Partial Flow Head
For your existing Model 6500**

Allows testing even in adverse weather conditions, allows rapid attachment and accurate readings:

Bayonet (Straight) and Curved Nozzles
*Clamp available



P/N 194-0027
Includes lenses, curved and straight nozzles, extension pole.

P/N 194-0028
Includes extension pole, curved and straight nozzles

Model 6500 System (Complete)

(full-flow sensor head)

194-6500C

Consists of:

- Control Unit with recorder jack, printer interface
- Stack Piece (7") source and detector
- Mounting Clamp Magnet and Band (for 5" Ø stack)
- AC Adapter/Charger
- Connecting Cable (25')*
- CPU Interface (software included)
- Melles Griot Neutral Density Filter (.2)
- Portable Impact Printer
- Extension Pole
- Instruction Manual
- Carrying Case

*For additional 25' extension cable order Part No. 191-0011
(no extra charge with original order)*

Model 6500 "Basic" (Full Flow)

194-6500B

does not include the carrying case, extension pole, or printer.

Model 6500 Smoke Meter (Complete)

with partial flow head

194-6500C-PF

includes all components listed above, however, the stack piece is a partial flow unit

*For additional 25' extension cable order Part No. 191-0011
(no extra charge with original order)*

Model 6500 "Basic" (Partial Flow)

194-6500B-PF

does not include the carrying case or printer.



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*220V (export version) available on request
No additional charge.*