



2H

Portable Digital Photometer

Portability The 2H is the smallest, lightest digital photometer available in a portable self-contained unit. The 2H has been designed with the user in mind for simplicity of operation and virtually maintenance-free use. Its basic purpose is to detect and measure mass concentration of aerosol in air. An air flow sensor and indicator lights have been added to improve data reliability.

Microprocessor Technology The microprocessor controlled 2H enables the operator to quickly set operating functions and parameters. It is easily programmed and operates with just 7 push buttons. The digital display has a set-up menu and diagnostic codes for operator convenience. The range of concentration measurable is from 100 to 0.0005%. The 2H has two pre-set reference values (DOP & PAO) for aerosol agents as well as a third setting for a user definable value. The unit will now retain the latest reference setting when restarted.



- Industrial
- Medical
- Pharmaceutical
- Stack sampling
- Pollution monitoring
- Filter banks

2H

benefits

Proven design, simplicity, and ease of operation.

Audible alarm feature with adjustable set point.

Internal reference values for DOP and PAO and setting for a user specified value.

Rugged, die cast aluminum enclosure.

100 to 250 volts AC, 50/60 Hz fused power entry module with spare fuses.

Optional 12ft (4.2 meters) scanning probe complete with digital display, visual alarm and ergonomic handle.

Optional sturdy, heavy duty, lockable, reinforced case.

Flexible probe adjustable to all angles. Interchangeable nozzles are included.

2H Portable Photometer Specifications

SIZE: 10.1" x 14.3" x 5.8"
25.7 cm x 36.3cm x 14.7 cm

WEIGHT: 15.5 lbs. plus 2.5 lbs. for scanning probe and accessories = 18.0 lbs
7.0 kg plus 1.1 kg for scanning probe and accessories = 8.2 kg.

ENCLOSURE: Instrument enclosure is rugged, die cast aluminum and can be easily disassembled as required for recalibration and service of internal components.

The enclosure has swiveling carry arm that also acts as a support, which permits tilting the control panel display upward for easy viewing, as well as increasing the ease for transporting the unit.

POWER: 100 to 250 volts AC, 50/60 Hz fused power entry module with spare fuses. Automatically adjust to virtually all standard voltages used worldwide. Please specify power supply cable when ordering unit (UL/CSA/VDE).

AUTO-RANGING: Automatic from 0.0001% to 100.0%. Provides 6 decades of display and eliminates the manual range selection switch.

AUTO ZERO: Automatically establishes zero by pressing the 0% button when sampling the airflow through the internal ULPA reference filter in the clear mode. Automatically establishes downstream reading as zero by pressing the 0% when sampling the downstream airflow through the ULPA filter.

ALARM: Audible Alarm in unit sounds when adjustable set point is exceeded. Set point is adjustable. Visible Alarm flashes on control panel and Scanning Probe when set point is exceeded.

BARGRAPH: Solid-state bargraph with high visibility green LED on control panel and scanning probe.

AMPLIFIER: Solid-state linear amplifier.

ACCURACY: 1% of full scale for the decade in use.

DIGITAL DISPLAY: Shows Leakage from 0.0001% to 100.0%

DYNAMIC RANGE: 0.0001 to 125 micrograms per liter.

LIGHT SOURCE: Improved, longer lasting and more stable solid-state scattering chamber light source. Photometer operates at lower power, generating less heat and lower stray light values. Life expectancy is 50,000 to 100,000 hours.

REPEATABILITY: 0.05% full scale.

SCATTERING CHAMBER: Field-tested design for efficient and reliable performance. Easy to clean and requires less maintenance. An "OPTICS" indicator has been added to the front panel to indicate accurate internal reference response.

VACUUM PUMP: True 1 cubic foot per minute (cfm) sample rate (28.3 liters per minute) using a twin head, carbon vane pump for quiet operation and dependability. A HEPA exhaust filter is connected at the outlet of the vacuum pump to entrap any particles from the pump exhaust. A "FLOW" indicator has been added to the front panel to insure operation within required parameters.

OUTPUT: A DB9 connector is provided standard on all units for RS232 output.



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