

Six-Channel Hybrid Handheld Particle Counter



HAL-HPC600

Features

- All 6 channels continuously adjustable with 0.1 micron step resolution
- Combines both handheld and portable functionalities with a built-in mini-printer
- USB and RJ45 interfaces for remote real-time sampling and data download
- Long-distance remote sensing via Ethernet
- Up to 6000 internal data memory
- Excess-count-limit warnings
- High precision, digital, external temperature and humidity sensors
- Durable keypads with a large blue LCD display

The HPC600 handheld laser particle counter is the latest innovation in the demanding application of particle distribution measurements. It is useful in measuring particle distributions in ultra-clean environments by its single particle counting ability as well as in indoor air quality applications. The instrument consists of a handheld monitor with a main base unit that allows users to conduct sampling with the portable handheld monitor while easily expanding to multiple functionalities provided by the base unit. These extended functions include real-time data remote sampling, printing, data downloading, software upgrades, battery charging, etc. In addition to USB interfaces, the RJ45 interface allows users to conduct remote sampling away from the sampling location via Ethernet/Internet.

The HAL-HPC600 is the world's first of its kind hybrid handheld optical particle counter. The instrument is truly a breakthrough for a new generation of particle counters that combine the traditional handheld instruments with functionalities of portable instruments. It is in compliance with the international standards (JIS B 9925:1997 and ISO14644-1) and CE certification. It supports both metric and English systems. All of its key components are made in the USA, Germany or Japan. It features high sensitivity, multiple functional capabilities, ease of use and reliability for extremely sensitive environmental measurements and advanced applications.

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Specifications

Light Source Laser diode (>100,000 hours) Sensitivity 0.3µm Size Range 0.3 ~ 25µm User configurable on any channel with Channels 0.1µm resolution (six default channel settings: 0.3, 0.5, 0.7, 1.0, 2.0, 5.0µm) Counting 50±20% @ 0.3µm 100±10% @ 0.45µm Efficiency Coincidence <5% @ 70,000 particles/liter or <5% @ 2,000,000 particles/ft³ Loss Zero Count <1 count per 5 minutes Flow Rate 2.83 L /min (0.1cfm) Sampling Time User defined: (up to 59m59s) and auto repeat (up to 99 times) Count Limit FED STD 209E (Class 1 ~ 100,000) or ISO 14644-1 (Class 2 ~ 9) Warning Sampling Cumulative, differential, concentration Mode (counts/liter, counts/cubic foot) Excess count limit, optics Error Indicator contamination, loss of laser power, insufficient battery power USB, RS232, RJ45 Interface 6000 measurement data (1000 sets) Internal Memory Removable, rechargeable Lithium Power battery (7.4V/2800mAh) or 9VDC AC Adapter (100~240V input) Max. Operating Continuous operation > 5 hours with Time Lithium battery Dimensions Handheld: 185 (H) × 90 (W) ×48 (D) mm Base unit: 152 (Dia.)× 90 (H) mm Weight < 800 grams (including battery) Environmental Operating: 5 ~ 45°C, < 90%RH Conditions Storage: -20 ~ 65°C, < 90%RH Main base unit. AC adaptor, iso-Accessories kinetic probe, USB data cable, remote sampling and data download software (CD), zero-count/purge filter, digital temperature and humidity sensor probe, tripod, traceable calibration certificate

Applications

- Clean environment monitoring
- Indoor air quality
- Test/Check filter seal and efficiency
- Trace contamination source
- Analysis of particle size distribution