



KANOMAX
The Ultimate Measurements

PIEZOBALANCE DUST MONITOR 3520 SERIES

Respirable aerosol mass monitor

Models 3521 and 3522 are unique **respirable aerosol monitors**, providing direct mass concentration of particulates using 'piezobalance' technology; ideal especially for oil mist monitoring.

Equipped with 4 and 10µm impactors while the 3522 is equipped with a 2.5µm impactor, piezobalance dust meters like the 3521 and 3522 "weighs" mass concentration of particulates. As an air sample enters the system, it travels through the impactor, which captures and removes larger particulates away from the sample. Smaller particulates become electrically charged and deposited on the piezo-crystal. The total mass of the deposited particulates affects the piezo-crystal's frequency. Since the change in frequency is proportional to the mass of the particulates, the actual weight of the particulates is obtained.



Software Included

Applications

- ✧ Oil Mist Monitoring
- ✧ Automotive Engineering Area Monitoring
- ✧ IAQ Investigations
- ✧ Industrial Hygiene
- ✧ Occupational Health & Safety
- ✧ Product Quality Control
- ✧ Laboratory Research



FEATURES AND BENEFITS

- ✧ Measures PM 10, Respirable, or PM 2.5 particle matters
- ✧ Simple cleaning mechanism for easy maintenance
- ✧ Real-time measurements of dust concentration
- ✧ Complete with data processing software, RS 232C cable, cleaning kit, Ni-MH battery pack, AC adapter, carrying case and calibration certificate
- ✧ Data logging up to 500 measurements

PRODUCT SPECIFICATIONS

| Main Unit Specifications | |
|--------------------------|---|
| Model | 3521 |
| Measuring Object | Airborne Particle Matter 0.1 to 10 µm |
| Impactor | 10 µm, 4 µm |
| Measuring Range | 0.01 to 5 mg/m3 |
| Accuracy | +/- 10% of reading +/- 1 digit (0 to 5 mg/m3) +/- 20% of reading +/- 1 digit (5 to 10 mg/m3) |
| Model | 3522 |
| Measuring Object | Airborne Particle Matter 0.1 to 2.5 µm |
| Impactor | 2.5 µm |
| Measuring Range | 0.01 to 10 mg/m3 |
| Accuracy | +/- 10% of reading +/- 1 digit |
| General Specifications | |
| Sampling Flow Rate | 1 L/min |
| Datalogging | 500 data and time stamped measurements |
| Interface | RS-232C |
| Power Supply | Ni-MH battery or AC adapter |
| Dimensions | H7.0" x D5.9" x W2.7" (180 x 150 x 65mm) |
| Weight (with batteries) | 4.4 lbs. (2 kg) |
| Warranty | 1 year |
| What's Included | Meter, Operation manual, Software, RS232C cable, AC adapter, NiMH battery pack, Cleaning kit, Impactor(s), Carrying case, Calibration certificate |

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