



SMA MicroParticle ICS
Non-Viable Particle Counters

UNMATCHED ENVIRONMENTAL CONTROL



Since 1981 Veltek Associates, Inc. (VAI®) has been a leader in designing innovative products for contamination control in manufacturing operations for the Pharmaceutical and Bioscience industries. We are pleased to announce the addition of the **SMA MicroParticle ICS™** line of non-viable particle counters to our contamination control portfolio. As part of our Environmental Control Monitoring Division, the SMA MicroParticle ICS systems are used for continuous or periodic monitoring of particle counts in cleanrooms and critical environments. The instruments utilize the **latest innovation in particle counting technology** and have **several features not found in other Particle Counters.**



vai

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SMA MicroParticle ICS™ NON-VIABLE PARTICLE COUNTERS

UNIQUE AND INNOVATIVE FEATURES



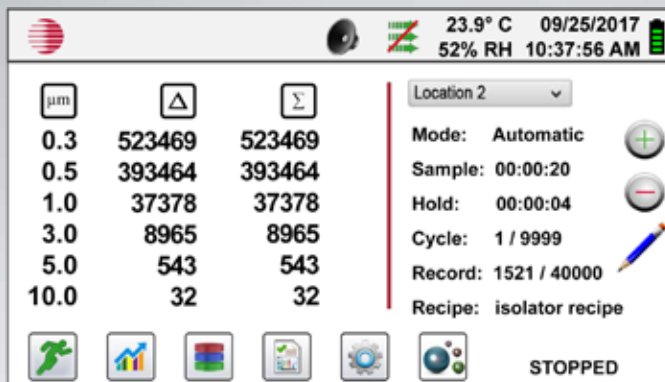
Advanced Multi Processing

Our exclusive multi-processing capabilities utilize multiple high-end controllers. These allow the instrument to simultaneously process and log data such as humidity and temperature at full speed while sampling for airborne particles. The user can conveniently access instrument data at any time during the sampling process without interfering with or interrupting the process.

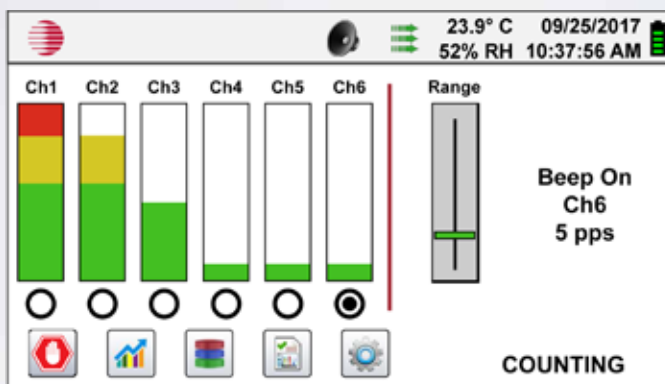


Annotations

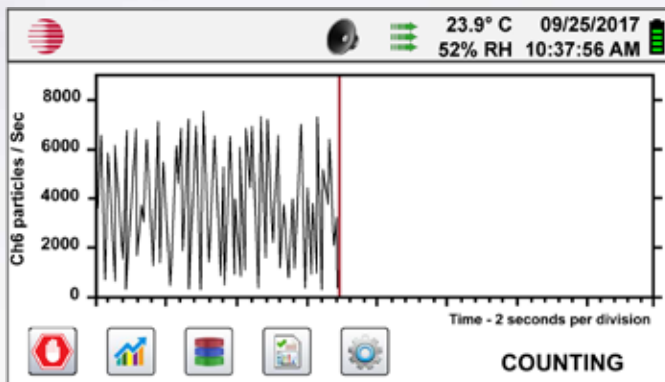
The SMA MicroParticle ICS systems is the only system available that allows the user to add note fields to any



Home
screen display



Real-Time
screen display



Particles Per Second
screen display

data record while the instrument is running. The ability to add notes during the sampling process saves time as compared to waiting to do it after the process is completed. Notes may be added to current or previously recorded data, minimizing the risks associated with using external records.



Sampling

The SMA MicroParticle ICS systems can store up to 45,000 comprehensive data records for each sample. When sampling at a rate of 1 sample per minute, a full month's worth of data can be collected before prior records are overwritten. This is one of the largest storage capacities available.

The instruments allow for 1,000 user-defined sampling locations with up to 50 recipes (i.e. number of samples, sampling time, intervals etc.). Locations and recipes are very useful when an instrument is frequently used to perform the same sampling task at a location. If a specific recipe is linked to a location, that recipe will be carried out each time that location is specified. This provides for flexibility when setting up your sampling program.



Reporting

The SMA MicroParticle ICS allows the user to print out reports that comply with ISO 14644-1, EU GMP Annex 1, and Federal Standard 209E. This minimizes the risk of regulatory actions due to errors in producing these reports manually, outside of the instrument.



Interface with the SMA OneTouch® ICS System

The SMA MicroParticle ICS systems can be integrated with VAI's SMA OneTouch ICS viable air sampling systems. The SMA One Touch ICS system controls remote sampling locations throughout a manufacturing area, for microbiological contamination. By integrating the two instruments, the SMA MicroParticle ICS systems can be controlled by the same touch screen interface, thus, allowing non-viable and viable sampling to be programmed and operated from one central location. This automates the remote sampling process and provides the convenience of running your sampling program from one location. This greatly reduces the time associated with individually starting each particle counter at all of the sampling locations.

SMA MicroParticle ICS

HANDHELD



The SMA MicroParticle ICS Handheld particle counter has 6 channels and measures particles from 0.3 microns to 25.0 microns at a flow rate of 0.1 CFM (2.83 LPM). The unit is easy to configure and uses a large icon driven touchscreen. The large display allows the user to scroll quickly through large amounts of data, even while wearing gloves.

The SMA MicroParticle ICS Handheld system utilizes an exclusive real-time meter feature allowing the user to pinpoint sources of contamination. This feature displays count data using a histogram, with a log scale, that shows you relative particulate traffic for each channel. The slider on the display allows you to adjust the sensitivity of the counter to accurately locate the source of particles in real-time.

The systems integrate seamlessly with a facility's monitoring systems and can be controlled and monitored remotely via a web browser. Data can be transferred via Ethernet, USB, Wireless RS 485 and/or RS 232 ports.

The SMA MicroParticle ICS Handheld system will store up to 45,000 sample records, the largest memory available in a handheld particle counter. Additionally the units have the longest battery life available at 10+ hours of continuous of use between charges.

Features

- Measures particles from 0.3 microns to 25 microns
- Stores up to 45,000 sample records, 1000 sample locations, and 50 recipes
- 0.1 CFM (2.83) LPM flow rate
- Measures up to 6 channels of simultaneous data
- Approximates mass concentration microns/m³ with density and refractive index corrections
- Long life laser diode technology
- Temperature and humidity probe included
- Annotation function allows for 32 character annotations to be added to a sample record
- Real-time meter for detecting particle contamination sources
- User definable reports
- Internal audible alarm
- Integrated handle for one-handed operation
- Temperature and relative humidity probe included
- Displays and externally prints reports compliant to ISO 14644-1, EU GMP Annex and Federal Standard 209E
- Complies with ISO 21501-4 and JIS B9921 standards
- Light weight high-impact injection molded plastic enclosure
- Easy to clean and wipe down with minimal particle traps
- 1 year warranty



SMA MicroParticle ICS

TABLE TOP



The SMA MicroParticle ICS Table Top particle counter measures particles remotely from 0.3 microns to 25.0 microns at a flow rate of 0.1 CFM (2.83 LPM) and is the most versatile particle counter available. The instrument is easy to configure, displays 6 particle size channels, and measures humidity and temperature data; all displayed on a 4.3" color touch screen. This counter can be set for continuous use or for a specified sampling time. The particle counter utilizes the best long life optical technology in the industry.

The SMA MicroParticle ICS Table Top particle counter is a remote battery operated system that will easily integrate into a building automation and/or cleanroom management system. The unit can be operated by battery power or plugged directly into the charger. Data can be transferred via Modbus Ethernet, USB, Wireless, RS 485 and/or RS 232 ports and the system can be controlled and remotely monitored via a web browser. The unit can sit on any level surface or can be wall mounted with the optional bracket. The SMA MicroParticle ICS Table Top particle counter utilizes an internal vacuum pump with flow control.

SMA MicroParticle ICS Table Top particle counter stores up to 45,000 time stamped particle counts and environmental data records, which provides redundancy on every instrument.

Features

- Measures particles from 0.3 microns to 25 microns
- Measures up to 6 channels of simultaneous data
- 0.1 CFM (2.83 LPM) flow rate
- Stores up to 45,000 sample records, 1000 sample locations, and 50 recipes
- Approximates mass concentration microns/m³ with density and refractive index corrections
- Long life laser diode technology
- Temperature and humidity probe included
- Annotation function allows for 32 character annotations to be added to a sample record
- User definable reports
- Internal audible alarm
- Temperature and relative humidity probe included
- Displays and externally prints reports compliant to ISO 14644-1, EU GMP Annex and Federal Standard 209E
- Complies with ISO 21501-4 and JIS B9921 standards
- Light weight stainless steel enclosure
- Easy to clean and wipe down with minimal particle traps
- 1 year warranty



SMA MICROPARTICLE ICS

WALL MOUNT



The SMA MicroParticle ICS Wall Mount particle counter is the most feature-advanced particle counter available. The counter measures particles from 0.3 microns to 25.0 microns at a flow rate of 0.1 CFM (2.83 LPM). The instrument is easy to configure, displays 6 particle size channels and measures humidity and temperature data; all displayed on a 4.3" color touch screen. The SMA MicroParticle ICS Wall Mount particle counter can operate continuously or for specified sampling time. The counter utilizes the best long life optical technology in the industry.

The SMA MicroParticle ICS Wall Mount particle counter is a remotely operated system that mounts to a wall for fixed sampling locations. The system can be operated using a centralized vacuum or via an internal pump with flow control. Each system includes the internal pump.

The SMA MicroParticle ICS integrates seamlessly with building automation and/or cleanroom management systems. Data can be transferred via Ethernet, USB, Wireless, RS 485 and RS 232 ports and/or the system can be controlled and remotely monitored via a web browser.

Features

- Measures particles from 0.3 microns to 25 microns
- Measures up to 6 channels of simultaneous data
- 0.1 CFM (2.83 LPM) flow rate
- Stores up to 45,000 sample records, 1000 sample locations, and 50 recipes
- Approximates mass concentration microns/m³ with density and refractive index corrections
- Long life laser diode technology
- Temperature and humidity probe included
- Annotation function allows for 32 character annotations to be added to a sample record
- User definable reports
- Internal audible alarm
- Temperature and relative humidity probe included
- Displays and externally prints reports compliant to ISO 14644-1, EU GMP Annex and Federal Standard 209E
- Complies with ISO 21501-4 and JIS B9921 standards
- Light weight stainless steel enclosure
- Easy to clean and wipe down with minimal particle traps
- 1 year warranty



SMA MicroParticle ICS

REMOTE PARTICLE COUNTERS



The VAI remote particle counters are designed for remote applications where mounting space is limited. The systems are easy to mount with several mounting options available. The VAI remote particle counters are the smallest units in the industry, therefore, allowing for mounting in even smaller spaces. Integration is easy to real-time monitoring, utilities management or cleanroom management systems via Modbus RTU or Modbus ASCII. There are two version of our remote monitoring particle counters, one that has a flow rate of 0.1 CFM and the other with a flow rate of 1.0 CFM.

- Our 0.1 CFM (2.83 LPM) model has 4 channels and measures particles from 0.3 microns to 5.0 microns. It comes factory calibrated at 0.3 microns, 0.5 microns, 1.0 microns and 5.0 microns concentration limits.
- Our 1.0 CFM (28.3 LPM) model has 2 channels and measures particles that are 0.5 microns and 5.0 microns.

Features

- Industry's smallest remote particle counter available
- Measures multiple channels of simultaneous data
- Long life laser diode
- Modbus RTU or Modbus ASCII communication
- Complies with ISO 21501-4 and JIS B992 standards
- Light weight stainless steel enclosure
- Easy to clean
- 1 year warranty

SMA MicroParticle ICS

PART NUMBERS

Models

ORDER NUMBER	DESCRIPTION
SMA-MP-HH	SMA MicroParticle ICS, Handheld Particle Counter, 0.1 CFM
SMA-MP-TB	SMA MicroParticle ICS, Table Top Particle Counter, 0.1 CFM
SMA-MP-WM	SMA MicroParticle ICS, Wall Mounted Particle Counter, 0.1 CFM
SMA-MP-RA	SMA MicroParticle ICS, Remote Particle Counter, 0.1 CFM
SMA-MP-RB	SMA MicroParticle ICS, Remote Particle Counter, 1.0 CFM

Replacement Parts

ORDER NUMBER	DESCRIPTION
SMA-MP-TA	Threaded Isoprobe, 0.1 CFM
SMA-MP-TRH	Temperature and Relative Humidity Probe
SMA-MP-PRA	Purge Filter, 0.1 CFM
SMA-MP-BTY	Rechargeable Battery for Handheld and Table Top Models
SMA-MP-USB	USB Cable, 6 feet

Optional Accessories

ORDER NUMBER	DESCRIPTION
SMA-MP-BA	Barbed Isoprobe, 0.1 CFM
SMA-MP-PCE	Power Adapter for Europe and Korea
SMA-MP-PUK	Power Adapter for Malaysia, Singapore, and United Kingdom
SMA-MP-PAU	Power Adapter for Australia and China
SMA-MP-CH	External Battery Charger for Handheld and Table Top Models
SMA-MP-WLB	Wall Mounting Bracket for Wall Mounted Model
SMA-MP-HC	Carrying Case for Handheld Model
SMA-MP-BB	1.0 CFM Barbed Isoprobe for Remote Model SMA-MP-RB
SMA-MP-PRB	1.0 CFM Purge Filter for Remote Model SMA-MP-RB
SMA-MP-IOQ	Installation and Operation Qualification Template
SMA-MP-PTR	Printer for Handheld, Table Top, and Wall Mounted Models
SMA-MP-PAP	Paper for Printer, 10 Rolls



LEADERS IN CONTAMINATION CONTROL



Veltek Associates, Inc. designs innovative solutions to address the control of particulate and microbial contamination in pharmaceutical and biotechnology operations worldwide. VAI strives to develop meaningful technical relationships with our clients to ensure that VAI products meet, if not exceed, their unique requirements.

The products from VAI's four divisions build upon each other, making the company a full-circle, single-source supplier able to address any pharmaceutical or biotechnology contamination control requirements.

VAI has been an industry leader since 1981 and has over 135 US and International Patents. We are committed to continual innovation and improvement in our products to satisfy current and future regulatory requirements. Our corporate capabilities and pharmaceutical experience provide the framework for continuing VAI's leadership in contamination control.

Patents: www.sterile.com/patents



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