

Focus on GMP Data Integrity Aerosol Photometer 3991·Ultimate



Aerosol Photometer 3991·Ultimate: Flagship Version

GTI 3991 is an optically dispersive linear digital aerosol photometer that overturns the traditional design and is technically advanced and scientifically designed. It is the best instrument to be used for testing the integrity or leakage of high efficiency filters. After the high efficiency filter is put into operation, if there is leakage point or gap due to insufficient installation, the preset purification effect can not be achieved. Therefore, the leak detection test must be carried out on the high efficiency filter. Due to the low concentration of atmospheric dust upstream of the tested high-efficiency filter, it is necessary to use an aerosol generator to supplement the dust loading in order to meet the testing conditions. By using an aerosol photometer to test the concentration of suspended particles upstream of the high efficiency filter and conducting a uniform scanning test downstream, the leakage rate of the tested high efficiency filter can be determined, which facilitates the identification and quantification of the leakage point and provides reference for repair.

Key Features & Benefits



Built-in lithium battery
Sustainable testing for 4.5 hours
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Ultra-large data storage,
which can store up to
100000 sets of data



Convenient software
upgrading. Plug-in the USB
flash disk to import the
upgrade file and just by
pressing one button for
upgrading,



Built-in three-level
authority management,
which can generate
operation logs and comply
with the requirements of
laws and regulations.



Built-in low power mode to
reduce instrument power
consumption when not
tested

Applications

- High Efficiency Filter Verification
- Pharmaceutical industry and electronic industry
- Bio-safety cabinet, clean bench
- Nuclear energy and fuel
- Medical operating room and clean room
- Food processing and scientific experiment

HIGH EFFICIENCY FILTER LEAK DETECTION

Model	3991
Display Screen	8.4inch touch screen.
Data Display Range	0.0001~100.0% colorful display
Dynamic Range	0.0001μg/L ~600μg/L
Accuracy	1% of Readings (0.01~100%)
Repeatability	0.5% of Readings (0.01~100%)
Flow Control	1cfm (28.3L/min) ±5%
Create Zero Point	Automatic or Manual
Alarm	Audible, visual and vibration alarms when exceeding limits
Energy Saving Mode	Energy-saving and Consumption-reducing Function
Report	Continuity, monitoring, summary
Printer	Built-in Thermal Printer
ID Code	One-dimensional code scanning, automatic classification and traceable
Data	It can be stored, exported on USB flash disk or printed, and the log can be traceable and stored.
Data Storage Capacity	100,000 sets
Communications	USB can be connected with the computer and can be used for continuous scanning test.
GMP Three-level Management Authority	Including three-level authority management, which can set the identity and assign the use authority; generate the log report.
Language	English, Chinese
Reagent Settings	PAO, DOP, Ondina, PolyethyleneGlycol, Corn Oil, Mineral Oil, Paraffn Oi, and etc.
Sampling Port	Standard Internal Corner-free Rectangular Sampling Port
Shell Material	SUS304 Stainless Steel
Operating Environment	5°C~50°C less than 95%RH (non-condensation and non-icing)
Storage Temperature	-20°C~60°C (relative humidity below 95% without condensation)
Power	AC100~240V 50/60Hz or Lithium Battery (Built-in Lithium Battery optional)
Dimensions	220x 260(300 if handle included) x 390mm
Weight	11.1kgs (Host), probe and accessories 1kg
Standards Compliance	NSF49, IEST, ISO14644, EN61010 -1: 2010, EN61326:2006
Standard configuration	Host, Scanning Probe, Sampling tube, Instruction Manual, Verification Report, Power Cable, Packing List, Carrying Case
Select Configuration	Lithium Battery (built-in)

Innovative User Interface of Color Touch Screen and Chinese-English ▼

The product adopts 8.4inch colorful touch screen, Chinese and English switching display, rich options, reasonable design and convenient operation.

Includes options such as test, setup, user, log, data, suppression factor, alarm limit, report mode, date and time.



Built-in Lithium Battery ▼

Built-in high-capacity rechargeable lithium battery for 4.5 hours of continuous use. At the same time, it has a low power consumption mode to reduce the power consumption of the instrument when the test is not carried out. Improve Battery Life.

Built-in Thermal Printer ▼

Built-in thermal printer with long-lasting thermal printing paper for real-time printing. The product has USB communication interface, which can be connected with computer to realize the transmission, storage and statistical analysis of test data.



Multifunctional Scanning Probe ▼

The scanning probe is connected with the host through a 4m long pipeline. Even when it is far away from the host, various options can be set. The 1.8inch colorful display screen displays synchronously with the host. The scanning probe has the function of one-dimension code scanning, automatic classification of data and traceability.

Three-level Management Authority ▼

The instrument has built-in GMP three-level management authority, which can freely set 100 roles and assign operation authority. And generates a log report for the operation.

Portable Carrying Case ▼

The product is equipped with a portable protection box for easy transportation and movement. The interior is scientifically designed and the relevant parts are reasonably placed, so that the product can be permanently protected.

