

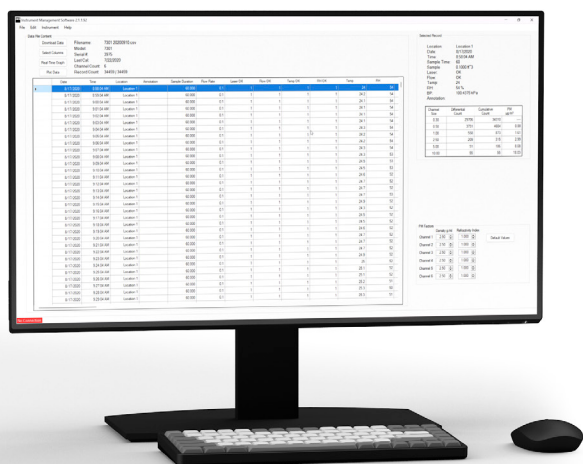
Instrument Management Software

Remote Operation, Data Collection, and Real-Time Graphing

Particles Plus® Instrument Management Software (IMS) software is provided free of charge and it includes remote operation, data collection, and real-time graphing while controlling Particles Plus particle counters.

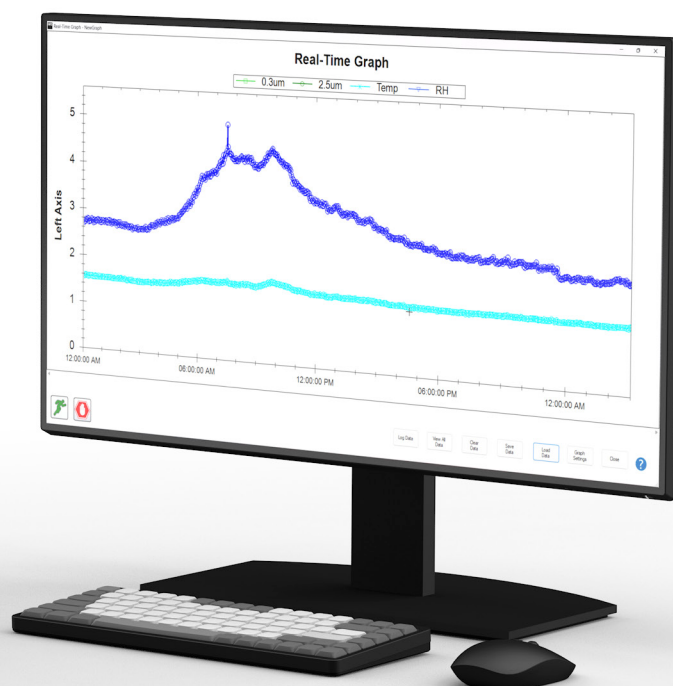
The software is used to manage and monitor particle counting instruments, providing accurate and reliable data for cleanroom and indoor air quality applications.

The software interface is intuitive and easy to navigate, providing a full dashboard. The IMS offers users the ability to update the firmware, download air quality data, or ever calibrate the environmental sensors present in each instrument.



Features and Benefits

- Intuitive user interface
- Real-time measurements
- Log data
- Calibration of the environmental sensors
- Firmware update
- Remote diagnostics
- Plot graphs for Date/Number Range, Last Number, or All Records
- Communication over USB, RS-232, RS-485, or Wired/Wi-Fi TCP/IP
- Operating system MS Windows™ PC (7, 8.1, 10, and 11)



Specifications

Instrument Management Software 2.1.1.02

File Edit Instrument Help

Data File Content

Download Date: 7/20/2020
Filename: 7301 20000910.csv
Model: 7301
Serial #: 3975
Last Cal: 7/22/2020
Real Time Graph
Channel Count: 6
Record Count: 34459 / 34459

Date	Time	Location	Annotation	Sample Duration	Flow Rate	Leak OK	Flow OK	Temp OK	RFI OK	Temp	RFI
8/17/2020	9:00:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	51
8/17/2020	9:00:04 AM	Location 1		60.000	0.1	1	1	1	1	24.1	54
8/17/2020	9:01:04 AM	Location 1		60.000	0.1	1	1	1	1	24.1	54
8/17/2020	9:02:04 AM	Location 1		60.000	0.1	1	1	1	1	24.1	54
8/17/2020	9:03:04 AM	Location 1		60.000	0.1	1	1	1	1	24.1	54
8/17/2020	9:04:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	54
8/17/2020	9:05:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	54
8/17/2020	9:06:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	54
8/17/2020	9:07:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	54
8/17/2020	9:08:04 AM	Location 1		60.000	0.1	1	1	1	1	24.2	53
8/17/2020	9:09:04 AM	Location 1		60.000	0.1	1	1	1	1	24.3	53
8/17/2020	9:10:04 AM	Location 1		60.000	0.1	1	1	1	1	24.3	52
8/17/2020	9:11:04 AM	Location 1		60.000	0.1	1	1	1	1	24.4	52
8/17/2020	9:12:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:13:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:14:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	53
8/17/2020	9:15:04 AM	Location 1		60.000	0.1	1	1	1	1	24.9	52
8/17/2020	9:16:04 AM	Location 1		60.000	0.1	1	1	1	1	25	52
8/17/2020	9:17:04 AM	Location 1		60.000	0.1	1	1	1	1	25	52
8/17/2020	9:18:04 AM	Location 1		60.000	0.1	1	1	1	1	24.9	52
8/17/2020	9:19:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:20:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:21:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:22:04 AM	Location 1		60.000	0.1	1	1	1	1	24.7	52
8/17/2020	9:23:04 AM	Location 1		60.000	0.1	1	1	1	1	24.9	52
8/17/2020	9:24:04 AM	Location 1		60.000	0.1	1	1	1	1	25.1	52
8/17/2020	9:25:04 AM	Location 1		60.000	0.1	1	1	1	1	25.1	52
8/17/2020	9:26:04 AM	Location 1		60.000	0.1	1	1	1	1	25.1	52
8/17/2020	9:27:04 AM	Location 1		60.000	0.1	1	1	1	1	25.1	52
8/17/2020	9:28:04 AM	Location 1		60.000	0.1	1	1	1	1	25.3	50
8/17/2020	9:29:04 AM	Location 1		60.000	0.1	1	1	1	1	25.3	51

Selected Record

Location: Location 1
Date: 8/17/2020
Time: 8:58:04 AM
Sample Time: 60
Sample: 0.1000 K³
Flow: OK
Leak: 24
RFI: 54 %
RFI: 100.4375 kPa
Annotation:

Channel	Differential Count	Cumulative Count	RFI	RFI ²
0.50	2976	34710	---	---
1.00	550	675	1.61	---
2.50	209	375	2.89	---
5.00	51	106	6.08	---
10.00	55	55	18.03	---

RFI Factors

Channel	Density g/m ³	Refraction Index
Channel 1	2.50	1.000
Channel 2	2.50	1.000
Channel 3	2.50	1.000
Channel 4	2.50	1.000
Channel 5	2.50	1.000
Channel 6	2.50	1.000

Main Screen

The Instrument Management Software allows users to view past and real-time measurements. The software will display the status of the instrument. You can download the measurements from the instrument to your computer into a .CSV file for archive or further analysis.

Instrument & Data Management

The software allows users to select the data that are relevant to their needs and directly export the data to MS Excel.

Additionally, it offers the ability to update the instrument firmware with new features and calibrate environmental sensor such as temperature and relative humidity.

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Select Columns to Display

Channel 1: 2.50 g/m³ 1.000
Channel 2: 2.50 g/m³ 1.000
Channel 3: 2.50 g/m³ 1.000
Channel 4: 2.50 g/m³ 1.000
Channel 5: 2.50 g/m³ 1.000
Channel 6: 2.50 g/m³ 1.000

Selected Record

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Select Records

Time Range: Start: 8/16/2020 12:41:20 End: 8/16/2020 12:41:20

Y-Axis Selection

Channel Parameters

Channel 1: 2.50 g/m³ 1.000
Channel 2: 2.50 g/m³ 1.000
Channel 3: 2.50 g/m³ 1.000
Channel 4: 2.50 g/m³ 1.000
Channel 5: 2.50 g/m³ 1.000
Channel 6: 2.50 g/m³ 1.000

Selected Record

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Channel 4	2.50	1.000
Channel 5	2.50	1.000
Channel 6	2.50	1.000

Data Plotting

Users can select data fields and a data range for the selected instrument and retrieve that data and plot it for immediate analysis. This provides a quick and simple means of viewing instrument data.

PAT. <https://particlepatents.com/> Additional Patents Pending.
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