

## AccuSizer 780 SPOS - Entegris

### INTRODUCTION

The Lumetics LINK™ software platform scans network locations for new measurement data files, copies data directly to a centralized database, and provides a powerful user interface for rapid multi-measurement multi-technique data aggregation, visualization, analysis, and reporting. LINK employs a client/server-based architecture where the LINK server hardware is provided by the end user and resides on the end user’s network. The LINK client is a portable web-based application that may be placed on any computer with network connectivity to the LINK server. For successful import, the LINK webserver requires read access to the folders where user data resides.

The AccuSizer is a comprehensive portfolio of high accuracy and resolution liquid particle counters that determine particle size and concentration of your suspensions. AccuSizer utilizes the SPOS technique, where particles in liquid suspension flow through a photozone, light is either absorbed or refracted due to the physical presence of the particle or it can be scattered at some oblique angle.

### DETAILS

LINK requires the ASC or CSV data file (without Headers included). Required data files must be exported from the instrument software.

The following raw curve data may be imported, in addition to all available instrument/analysis settings and parameters calculated by the instrument software:

- Particle Count/Concentration vs. Particle Size

The AccuSizer CSV file contains all instrument information, followed by Volts, Counts, and Run times. Example images below:

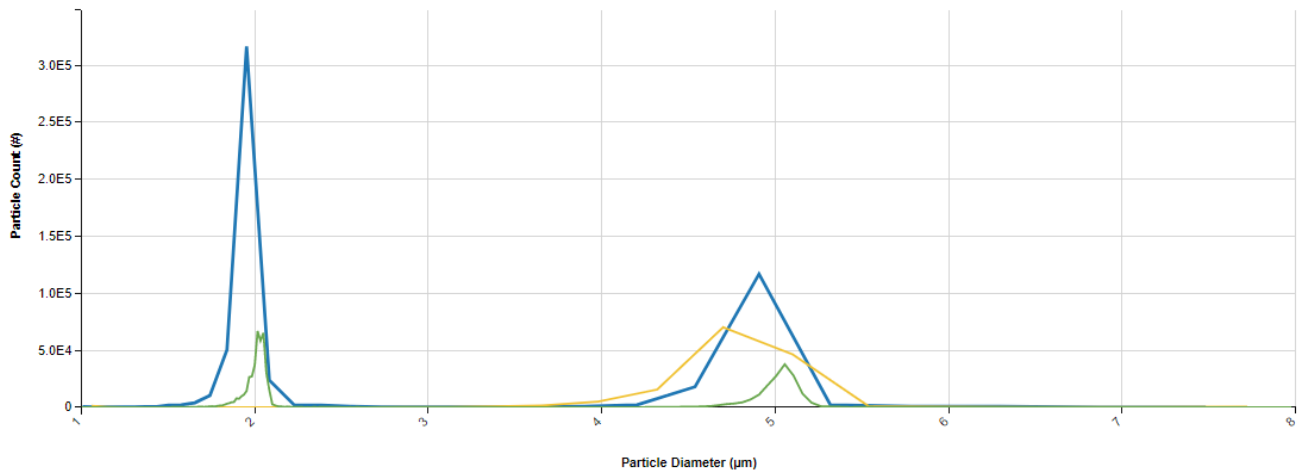
	A	B
1	Header	
2	Calibration	
3	Property	Lumetics
4	ID	ABC
5	Fit Type	Cubic spline fit
6	Serial Number	123
7	Date	9/28/2022
8	Table Type	S
9	Description	123_LINK
10	Model	LE400
11	Version	10064
12	Flow Rate (mL/min)	60
13	Min Diameter (µm)	0.5
14	Max Diameter (µm)	500
15	Property	Value
16	ID	ABC
17	Diluent Flow Pump Factor	1080
18	Diluent Flow Pump Factor - HS	2000
19	Sensor Mode	Summation
20	Stirrer Speed (%)	40
21	Stirrer Mode	On
22	Flush Before Run Sequence	TRUE
23	Flush After Measurement Run	TRUE

## EXAMPLES

Included below are sample dashboards from AccuSizer 780 measurement files:

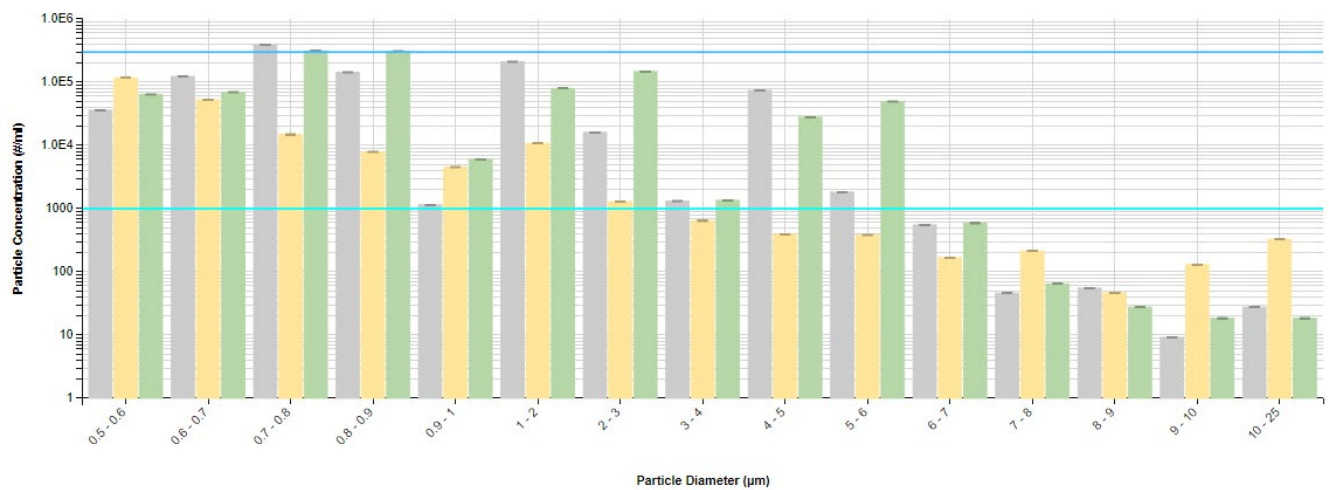
- Line Chart plotting raw data curves for Particle Count vs. Particle Diameter and split by sample name

Particle Count vs. Particle Diameter



- Histogram plotting binned raw data for Particle Concentration vs. Diameter

Particle Concentration vs. Particle Diameter



- Tabular Summary examples

Measurement Summary Table – Measurement Results

LINK Record ID #	Sample Name	Total Particle Count (#) - AVG	Total Particle Concentration (#/ml) - AVG	Particle Count (#) (Particle Diam. (µm) >=1) - AVG	Particle Conc. (#/ml) (Particle Diam. (µm) >=1) - AVG	Protocol - Target Concentration (counts/mL) - AVG	Protocol - Volume Per Container (mL) - AVG	Volume Analyzed (ml)	Total # Part. Sized (>=Thres. 0.17 µm) - AVG
2	LINK2	386371.93	217656.20	25536.36	14385.48	6000	0	1.78	
5	LINK5	0.00	0.00	0.00	0.00	3000	0	1.89	
7	LINK7	1976035.45	1068047.11	567856.47	306926.41	3000	0	1.85	
10	LINK0	1854941.95	1002596.17	563879.71	304777.00	3000	0	1.85	



## Measurement Summary Table – Instrument Settings

LINK Record ID #	Sample Name	File Name	Analysis Date	Background Scattering (V) - AVG	Background Extinction (V) - AVG	Target Instrument	Calibration - Serial Number - AVG	Calibration - Min Diameter (µm) - AVG	Calibration - Max Diameter (µm) - AVG	Calibration - ID	Calibration - Flow Rate (mL/min) - AVG	Calibration - Description	Calibration - Date
2	LINK2	2018_05_02_05...	2018-05-02 17:...	11.20	11.10								
5	LINK5	2018_04_05_02...	2018-04-05 14:...	11.30	11.10	APS	510904	0.50	500	a8b800e2-24e7...	60	S032918_SV_...	03-29-18
7	LINK7	2018_04_05_03...	2018-04-05 15:...	11.30	11.10	APS	510904	0.50	500	a8b800e2-24e7...	60	S032918_SV_...	03-29-18
10	LINK0	2018_04_05_03...	2018-04-05 15:...	11.30	11.10	APS	510904	0.50	500	a8b800e2-24e7...	60	S032918_SV_...	03-29-18

## ACCUSIZER DASHBOARDS

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LINK contains an extensive built-in dashboard library from LINK version 2.4.0.210401 and later. This function contains specific pre-created dashboards for all instruments and application groups.

## CONTACT LUMETICS

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For direct assistance, please contact Lumetics LINK™ Support:

**E-mail:** [support@lumetics.com](mailto:support@lumetics.com)

**Phone:** 1.613.417.1839

**Website:** <http://lumetics.com/>

