

ELPI USER NEWSLETTER



New Instrument

Dekati® ELPI™ has been available in the market since 1996. Since its release, hundreds of units have been sold and the instrument has been successfully applied to various particle measurement applications. Over the years, we've received a lot of feedback from our valued customers and based on these comments and requests have been able to further develop the instrument. Now Dekati is proud to introduce a new version of the ELPI™ instrument in the market.

The new instrument, **ELPI+™**, is based on the same well-proven technology utilized in the ELPI™ for the last 15 years. Features of the new ELPI+™ include:

- Wide particle size range; 6nm-10µm
- 14 size fractions in real-time
- 10lpm sample flow rate
- 10Hz sampling rate
- Wide operational concentration range
- Possibility for chemical characterization of the size classified particles
- Automated charge distribution measurement
- Independent stand-alone operation or control via laptop using ELPI+VI software
- Large 7" display with graphic user interface
- 6 analog inputs, 3 outputs, all 0-10V

The new ELPI+™ instrument operates at 10Hz sampling frequency and the time delay between the impactor stages has been taken into account in the calculation giving more accurate information on fast changing particle concentrations. The instrument now gives particle size distribution in 14 size fractions with added size resolution for particles <30nm.

Construction of the whole system has been simplified yet maintaining the unit as robust as the previous ELPI™ model to endure operation even in harsh conditions. At the same time the weight of the ELPI+™ unit has been reduced to 22 kg making it more easily transportable. The impactor and charger units have been re-designed to simplify the use and service of the instrument and optimize the operation. Automated features related to e.g. zeroing have also been added to the system to make its use even simpler.

The new ELPI+™ instrument can be used either as a stand-alone unit or via laptop running the ELPI+VI software provided with the ELPI+™. In stand-alone operation the system can be programmed for automatic data saving and electrometer zeroing.

The unit can be controlled via the large 7" display located at the front panel of the unit where the measured particle size distribution can also be monitored in real-time. The ELPI+VI software that runs on a separate laptop operates in a similar way as in the previous ELPI™ model but it has also been made easier to use. The ELPI+™ data can be saved on the laptop running the ELPI+VI software and/or inside the ELPI+™ unit where it can be retrieved via a USB connection. The analogue outputs also enable integration of the data to external systems.

ELPI+™ Information

The product brochure of ELPI+™ is enclosed in this newsletter along with a comparison of ELPI+™ and ELPI™. More detailed information is available in Dekati website:

- Instrument description
- Specifications
- List of accessories
- Brochure

Since the new improved ELPI™ model, ELPI+™, is now available, the manufacturing of the old model will end. The old model of the ELPI™ instrument and Outdoor Air ELPI™ model are available until the end of year 2011. Accessories, spare parts and service for all older model ELPI™ units will be available at least until the end of year 2016.

For more information on ELPI+™, please contact your local distributor or Dekati at sales@dekati.fi. List of Dekati worldwide distributors can be found at: <http://dekati.com/cms/contacts>



ELPI+™