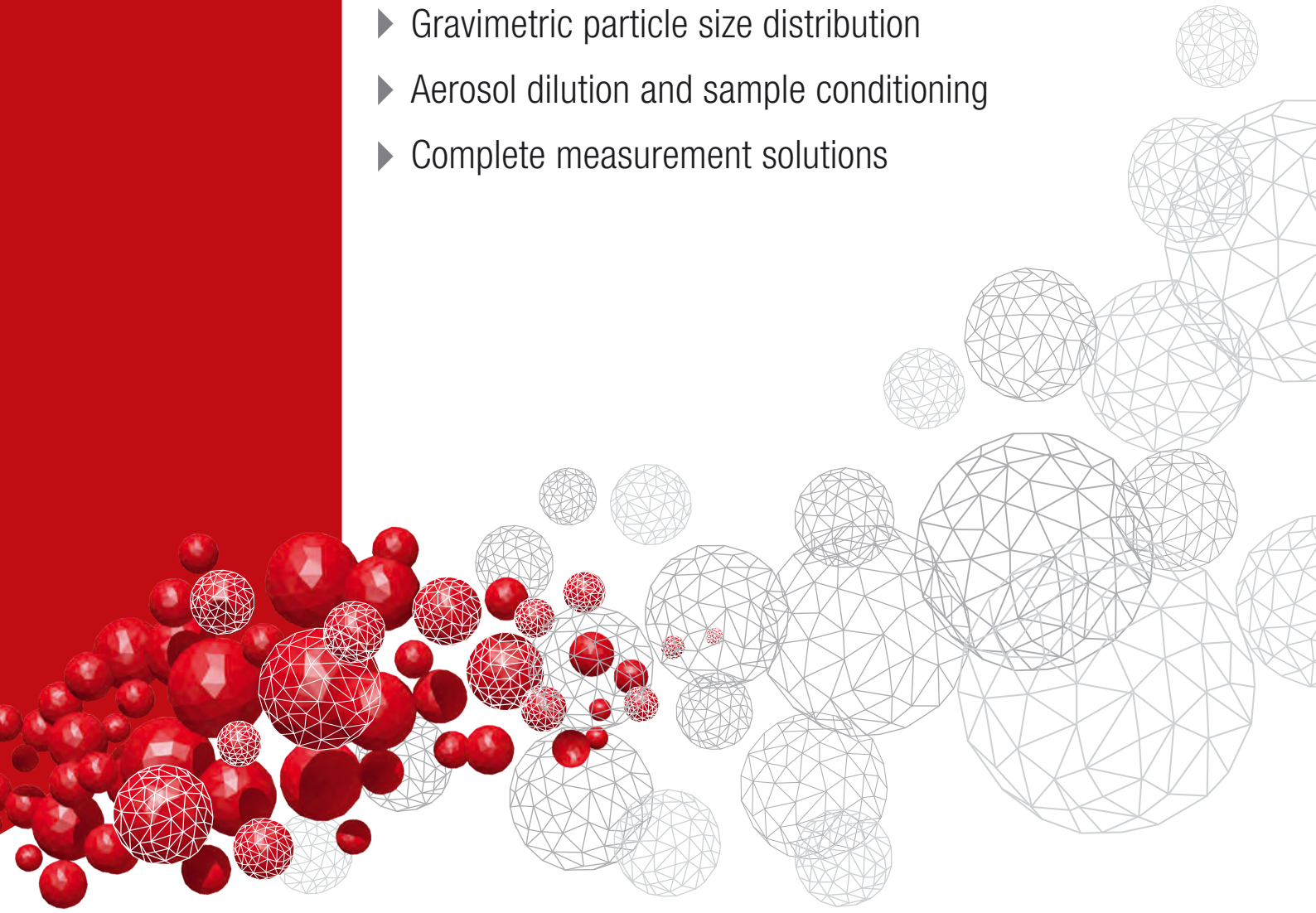
www.dekati.com

Dekati® Product Line

- Fine particle measurement instruments
- Real-time particle concentration and size
- Gravimetric particle size distribution
- Aerosol dilution and sample conditioning
- Complete measurement solutions



DEKATI

Excellence in Particle Measurements

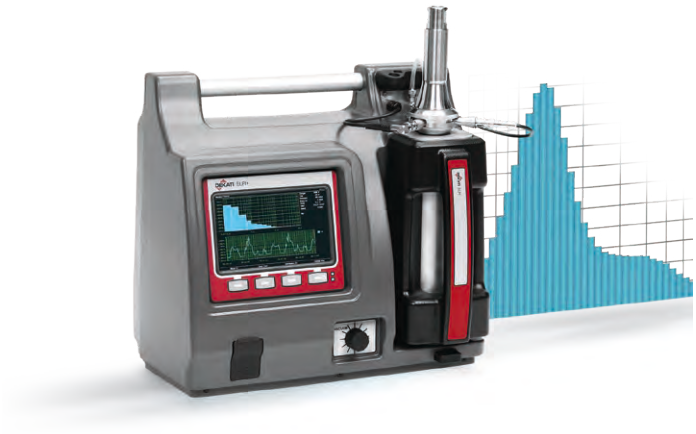
Fine Particle Measurement Instruments

Dekati's selection of fine particle measurement instruments includes several real-time particle analyzers that are well-suited to a wide range of applications. Our real-time particle analyzers allow particle concentration, size distribution and charge measurements, even at elevated temperatures.

All Dekati® Instruments use a single measurement technology throughout the entire specified particle size range.

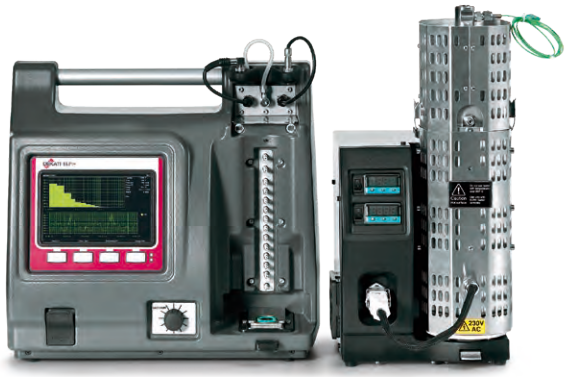
ELPI®+

- Real-time particle size distribution measurement 6 nm – 10 µm
- Wide particle size range with a single measurement method
- Possibility for chemical characterization of size classified samples
- Suitable for a wide variety of measurement applications



High Resolution ELPI®+

- ELPI®+ adapted for detailed particle size distribution analysis
- Real-time measurement of particle number size distribution
- Particle size distribution 6 nm – 10 µm in up to 500 size classes



High Temperature ELPI®+

- ELPI®+ adapted for high temperature applications
- Direct sampling of hot aerosols up to 180 °C
- Direct connection to the emission source
- No dilution systems needed

Dekati® eFilter™

- Standard and real-time PM measurement in a single instrument
- Standard gravimetric filter measurement
- Real-time PM, PN and LDSA concentration
- Measurement according to ISO 16000-34 and ISO 16000-37

Dekati® electrical Particle Sensor DePS™-Go

- Portable real-time electrical particle sensor
- Real-time PM, PN and LDSA concentration measurement
- Maintenance free
- Multiple data-interfaces

Aerosol Dilution and Conditioning

Dekati® Aerosol Dilution and Sample Conditioning Instruments enable particle sampling from virtually any source. We can provide complete sampling setups for a very broad range of applications and demanding measurement conditions. All Dekati® Sample Conditioning Instruments are made of stainless steel, allowing sampling from high temperatures and harsh conditions.

Dekati® eDiluter™

- Portable sample conditioning and dilution system optimized for diluting combustion aerosols
- Two-stage dilution system with controllable dilution temperature
- Fixed, stable dilution factor

Dekati® eDiluter™ Pro

- Advanced version of the Dekati® eDiluter™
- Adjustable dilution factor and dilution temperature
- Stable dilution factor even in variable sample pressure conditions
- VPR (Volatile Particle Remover) according to UN/ECE-R83 (Rev.5), UN/ECE-R49 (Rev.6) 2017/1151 and 2017/1154 (RDE)

Dekati® eDiluter™ Pro 1200C

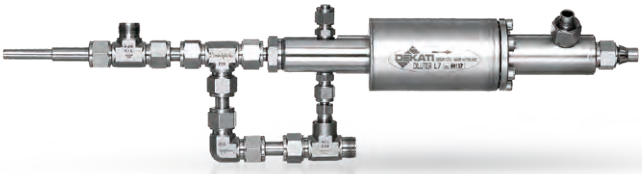
- eDiluter™ Pro combined with Dekati® High Temperature Sampling Probe
- Sampling from up to 1200 °C
- Optimized for diluting combustion aerosols

Dekati® Diluter

- Ejector diluter for combustion aerosol dilution
- Controlled sample conditioning with constant dilution factor
- Reliable and easy-to-use operation without moving parts
- Heated dilution setups for combustion aerosol sampling

Dekati® Axial Diluter DAD

- Simple dilution system for particle measurement applications
- Low consumption of dilution air
- Low particle losses
- High temperature operation



Dekati® High Pressure Diluter DEED-300

- Aerosol dilution from high sample pressure conditions
- Ideal for Pre-DPF measurements
- Always constant dilution factor

Dekati® Engine Exhaust Diluter DEED

- Two-stage versatile dilution system for exhaust conditioning
- Adjustable dilution factor and temperature
- Fulfills EURO 6 and ISO 8178 standards
- Compatible with all particle mass and number measurement systems

Dekati® Cyclone

- Pre-separator for emission measurements
- Designed according to EPA 201A
- Operation up to 600 ºC
- Isokinetic sampling nozzles available

Dekati® Cascade Impactor Line

The Dekati® Cascade Impactor line consists of four different impactor models for determination of gravimetric particle mass size distribution. All impactor models are well-characterized, individually calibrated and provided with an instrument specific calibration certificate.

Dekati® High Temperature DLPI+

- DLPI+ adapted for high temperature applications
- Direct sampling of hot aerosols up to 180 °C
- Direct connection to the emission source

Dekati® Low Pressure Impactor DLPI+

- Particle mass size distribution in 14 size fractions
- Wide operational size range of 16 nm – 10 µm
- Can be upgraded to ELPI®+ instrument for real-time data
- Complete measurement setups available for a wide variety of applications

Dekati® PM10 Impactor

- PM10, PM2.5 and/or PM1.0 measurement
- Particle emission measurement according to ISO23210
- Air quality measurement setups available with sampling inlets
- Robust, stainless steel construction allows direct sampling even from demanding measurement conditions

Dekati® Gravimetric Impactor DGI

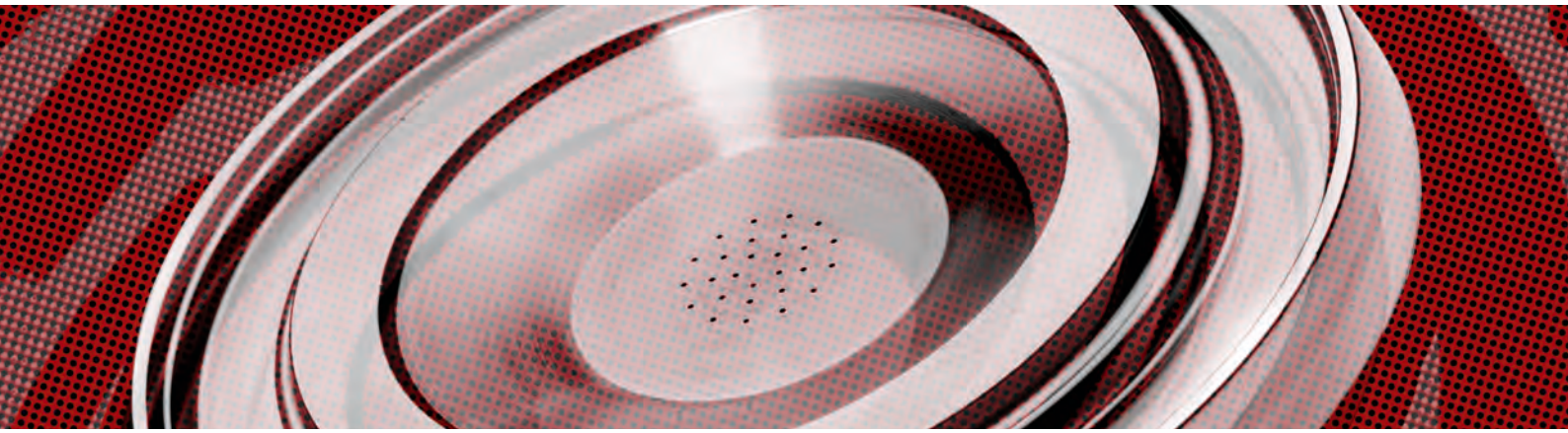
- High sample flow rate cascade impactor
- Particle mass size distribution for <2.5 µm particles
- Particle collection on 47 mm filters

Dekati® Solutions

In addition to Dekati® Products,Dekati provides a wide range of instrument accessories for complete fine particle measurement setups. The accessories include e.g. sampling inlets for air quality measurements, isokinetic sampling nozzles, standard and heated sampling lines, instrument heaters, sample dryers and sampling pumps.

With these additional parts, Dekati can provide complete measurement solutions for a wide range of measurement applications.

- Air Quality
- Stationary Source Emissions
- Nanoparticle Research
- Engine Emissions



Dekati Quality

All Dekati operations are in compliance with the Quality Management Standard ISO 9001:2015 within the scope of: "Design and development, manufacture, sale of and services related to fine particle measurement and aerosol sample conditioning instruments, sensors, accessories and their components".

ISO 9001 is the world's most recognized quality management standard, and it is based on several quality management principles including strong customer focus and continual improvement. Receiving the official certification demonstrates our ability and will to meet and exceed our customers' expectations.

As stated in our Quality Policy, we can now demonstrate our commitment to provide world-class fine particle measurement solutions to our customers, and further strengthen our customer focus:
"The aim of our quality policy is to develop and manufacture high quality particle measurement solutions and services to our customers' needs. Our goal is to meet and exceed our customers' requirements and expectations on product quality, operational features, and delivery and after-sales services. We are committed to continuously improve our products, internal processes, and capabilities to ensure and secure successful operation of our company.

ISO 9001
BUREAU VERITAS
Certification
N° FIHSK11145824A

Quality in Dekati® Instruments

All Dekati® Instruments are designed and manufactured in Finland with strict quality requirements and provided with a standard two-year warranty. Each manufactured unit is individually and thoroughly tested with traceably calibrated flow, pressure, temperature, voltage, current and particle measurements.

Additionally, all Dekati® Instrument models go through rigorous type-approval tests, where the instrument response is tested with changes in temperature, pressure and humidity. Additional misuse tests are carried out to make sure that the instruments are ready for any environment. These procedures ensure that every shipped instrument operates according to the specifications and that the measurement data from the instrument is reliable and reproducible.

- All units original Dekati® Design
- All units manufactured and calibrated in Finland
- All units individually calibrated and provided with a calibration certificate
- All units provided with standard two-year warranty, up to five-year warranty available for all Dekati® Products
- All units CE certified
- All units designed with robust structure for use in field conditions

While Dekati's product line includes a wide range of stand-alone instruments for fine particle measurement applications, Dekati's brand division Dekati Technologies now offers tailored particle sensors for integration into industrial systems. Visit **www.dekatitechnologies.com** to find out more details on our customizable sensors with various integration options specifically for industrial applications and into customer specific systems.

For more details on Dekati Ltd. and our products, visit **www.dekati.com** or contact us at **sales@dekati.com**

World leader in innovative fine particle measurement solutions

Dekati Ltd. is a world leader in designing and manufacturing innovative fine particle measurement solutions. We have over 25 years of experience in providing measurement instruments and complete measurement solutions to a wide variety of environments and sample conditions. We take pride in the quality and robustness of our products and are committed to finding the best possible solution for your aerosol measurement needs.

Our experience and expertise in aerosol measurement applications is at your disposal throughout the lifecycle of your investment via our global partner network. Our partner network serves our customers in more than 40 countries and many of them have been trained by Dekati engineers to provide local instrument maintenance services.

Dekati® Instruments are used for example in the following application areas:

- Combustion process studies and emission measurements
- Engine emissions
- Non-exhaust vehicle emissions (brake wear and tyre wear emissions, blow-by gas)
- Air quality
- Occupational health and industrial hygiene
- Filtration research and testing
- Nanotechnology and material processing
- Aerosol research

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