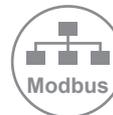




Fine Dust Sensor FDS 15



One device, many application possibilities.

The FDS 15 is characterized by its clear and simple design and by the precision of the fine dust measurement of PM2.5 or PM10. The fine dust instrument is a true multifunctional sensor for variety of applications in different industry segments.

Air Management System • automatic control for air supply and exhaust air in buildings

Air Quality System • for better indoor climate and for your health

Ambient Monitoring • focus on environmental protection and health care

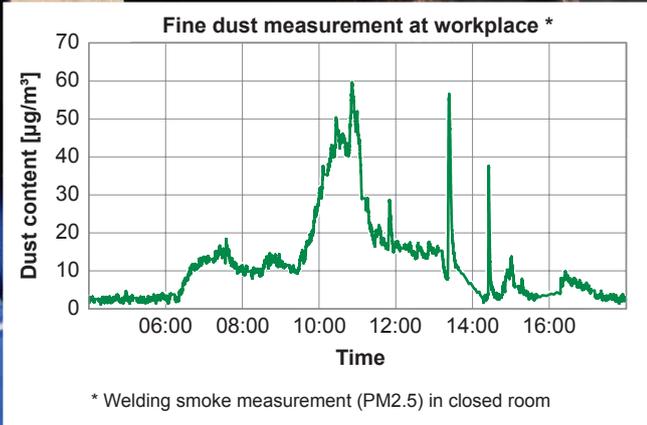
Workplace Monitoring • for more efficiency and quality assurance in the workplace

Filter Monitoring • efficiency improvement of filters in ventilation system control

Controlling Tool • energy saving by identifying diffuse sources

Benefit Kit • optimal supplementation and networking with other environmental sensors or stations





Monitoring the fine dust regardless of the weather.

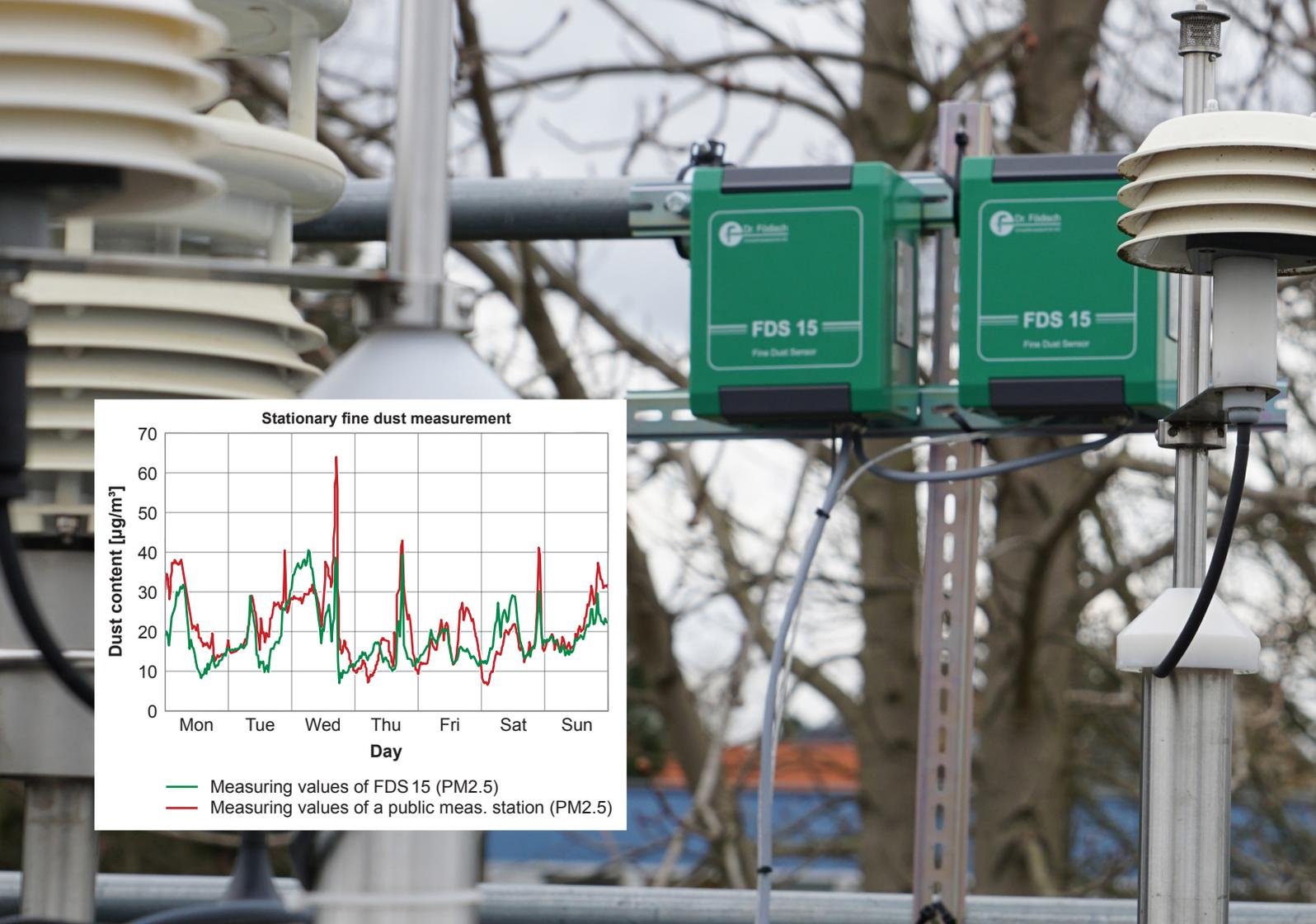
The FDS 15 sensor is ideally suited for indoor air monitoring as well as for the outdoor environmental parameter measurements.

The fine dust is determined by optical scattered light measurement. Thereby the air is sucked in and depending on the ambient temperature it is automatically preheated to 50 °C. In case of PM2.5 the conditioning is made by cyclone. The measuring cell is forced through an integrated fan. By means of the selected measuring gas velocity and the optical scattered light all the particles can be recorded representative.

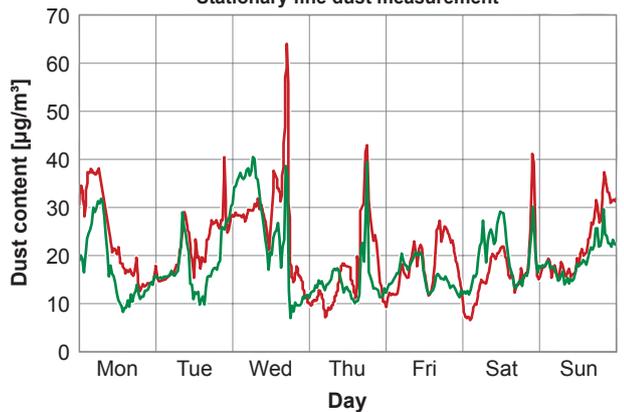
The automatic zero-point setting by an integrated electrostatic precipitator allows constant comparable results in the range of 2 to 2000 $\mu\text{g}/\text{m}^3$ even in heavily polluted environments. This patented technology is almost maintenance-free.

The compact aluminium housing and the safe power supply ensure that the measurements are possible to execute in any weather conditions.





Stationary fine dust measurement



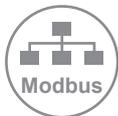
- Measuring values of FDS 15 (PM2.5)
- Measuring values of a public meas. station (PM2.5)

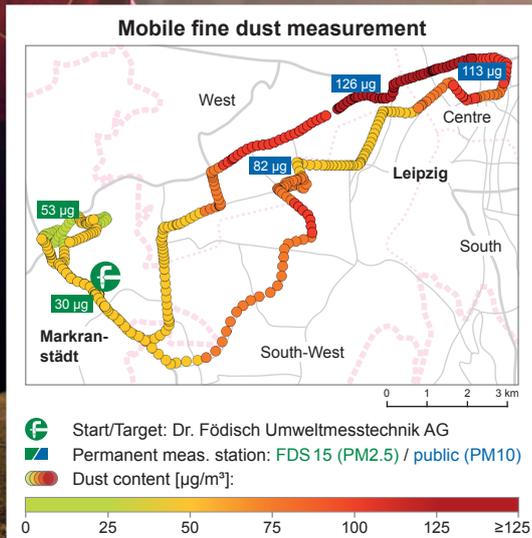
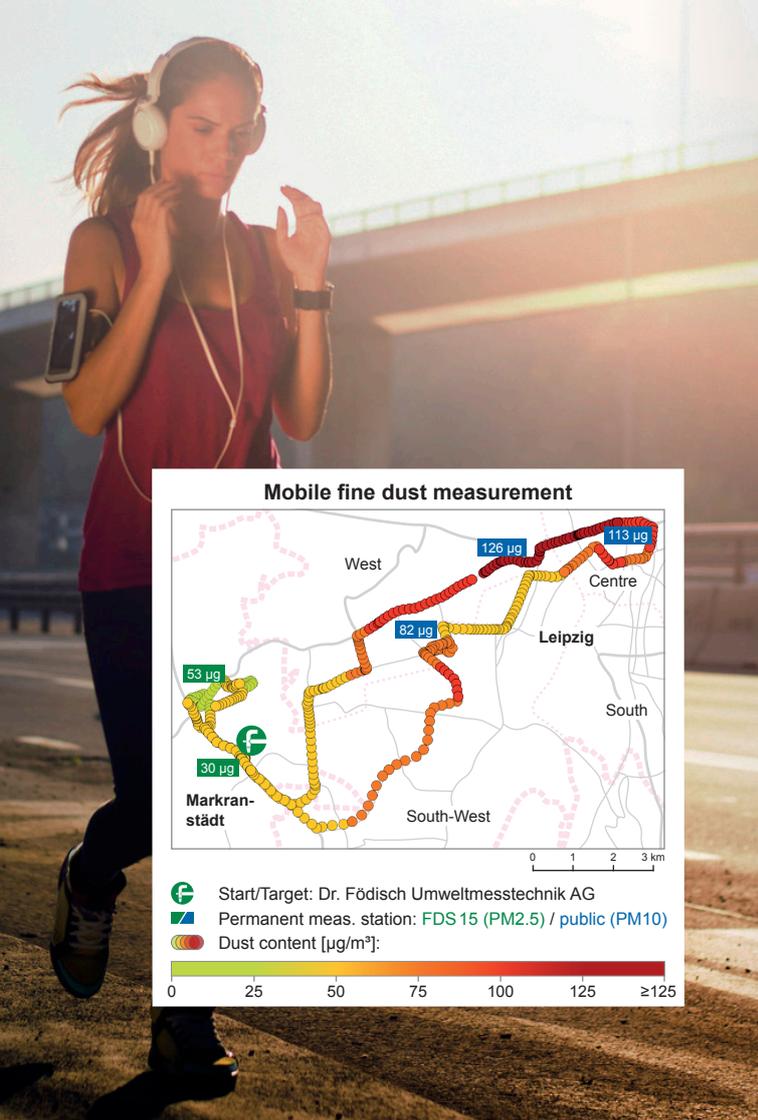
Area-wide measurement.

The networking of several fine dust sensors creates a clear added value. The integrated WLAN module as well as the standard interfaces for data output make it possible.

An urban fine dust measurement network is the modern answer to questions concerning the health hazards by real environmental impact of PM2.5 particulate matter pollutants. There are targeted and well-founded conclusions on weather phenomena and particulate matter pollutants.

The installation is simple and the maintenance requirements minimal.





Continuous and future-oriented.

The FDS 15 provides you security in compliance with globally applicable limits.

- Stable reliable measurements
- Fully equipped industrial instrument in low-cost price range
- Stationary or mobile fine dust measurement
- Data output as average in minutes / hours / days or weeks value, current and historical outputs
- Alveolar PM2.5 fractions of particulate matter determined by the integrated pre-separator
- PM10 particle measurement as a supplement to public measuring stations



Contact and additional information.

We are pleased to answer your questions in person. In addition, you will find the technical details in the product data sheet and the practical examples in our reference brochure.

You benefit from

- our many years of experience in process and environmental measurement technology
- our profound knowledge in the field of environmental legislation
- optimal and customer-oriented solutions



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