

Palas® Training Course “Environmental Measurement“

**Thursday, 12 September 2019, 8:30 am to 4:30 pm,
Palas GmbH, Greschbachstr. 3b, 76229 Karlsruhe**

Content

Theory and practical measurements concerning the continuous and simultaneous determination of fine dust (incl. PM_{2.5} and PM₁₀) indoor as well as outdoor

Theory (focus 1/2):

1. Basic principles of the optical particle measurement technology, light scattering, T-aperture
2. Overview of the measurement techniques for the PM_{2.5}, PM₁₀ determination of fine dust
3. The type-approval test (incl. demonstration of equivalence) by the TÜV Rheinland (accredited German Test House) and the certification according to EN 15267-1 and -2
4. Automated environmental fine dust measurements VDI 3867-1 and EN TS 16450
5. Indoor fine dust measurements VDI 4300-11
6. Short overview of ultra-fine dust measuring devices and combination possibilities (U-RANGE system)

Practice (focus 1/2):

1. Fidas® 200 stationary dust monitor for regulative ambient monitoring
 - a. Operation of the Fidas® 200 via the graphical user interface and touch screen
 - b. System calibration
 - c. Measurements and data export
2. Fidas® Frog mobile dust monitor
 - a. Operation of the Fidas® Frog via the tablet PC
 - b. System calibration
 - c. Measurements and data export
3. Introduction to PDAnalyze software

Speaker:



Dr.-Ing. Stefan Hoge

Division Manager Environmental Monitoring