

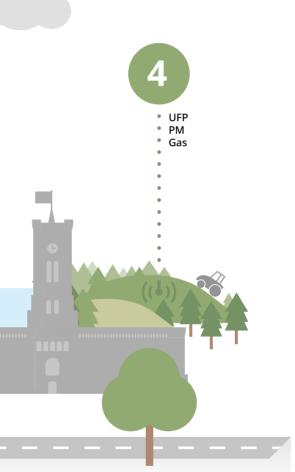
# SOLUTIONS FOR REGULATORY AIR QUALITY MONITORING



# MEASURING LOCATIONS AND SOURCES (ULTRAFINE PARTICLES, PM<sub>2.5</sub>, PM<sub>10</sub>, GASES)



- **TRAFFIC:** Anthropogenic, combustion process, non-exhaust emission
- **URBAN:** Anthropogenic, combustion process, industry, biosphere
- **URBAN BACKGROUND:** Anthropogenic, domestic combustion, industrial activities, biosphere
- 4 **RURAL:** Biosphere, agriculture
- **5 AIRPORTS:** Combustion processes, non-exhaust emissions



Scan here to find out more about our solutions for environmental monitoring networks!

# SOLUTIONS FOR RELIABLE MEASUREMENTS AT ALL LOCATIONS



## EDM 465 NANO: COUNTS

All-in-one CPC in mobile weatherproof housing, designed for 24/7 nanoparticle counting. Various calibrations possible, e.g. for ambient real-time monitoring of UFP to CEN EN 16976.

Condensation particle counting



## 5421-TR-CEN 19" CPC NANO: COUNTS

CPC for continuous measurement operation in AAQMS. Fulfills the harmonized, standardized nanoparticle counting according to CEN EN 16976. Sampling system with integrated Nafion<sup>®</sup> drying. Condensation particle counting



#### PROCEAS AIR | LASER INFRARED SPECTROMETER

Multi-component gas analyzer for ambient air applications: greenhouse gases, ammonia precursor of PM, air pollution. Designed for low to medium gas concentrations. Optical Feedback Cavity Enhanced Absorption Spectroscopy + Low Pressure Sampling



## 5420-TR-CEN 19" SMPS+C NANO: COUNTS + SIZE

Scanning mobility particle spectrometer for 24/7 number and size determination of nanoparticles in AAQMS according to CEN/TS 17434:2020. Sampling system with integrated Nafion<sup>®</sup> drying. Electrical classification with condensation particle counting



#### EDM 264 | MOBILE FINE DUST MONITOR

Optical aerosol spectrometer in weatherproof housing for real-time determination and value output. Special sample pipe of all dust mass fractions, the particle number size distribution and meteorological conditions.

Scattered light detection of individual particles (full-flow analysis)



#### EDM 264-SVC | MOBILE FINE DUST MONITOR

See EDM 264 for measurement performance QAL1-certified 24/7 real-time particulate removes semi-volatile compounds. The SVC content is determined in combination The only PM analyzer with approval for with the EDM 264.

Scattered light detection of individual particles (full-flow analysis), SVC removal through catalytic process particles (full-flow analysis)



#### EDM 280 | STATIONARY **PM MEASUREMENT EN 16450**

matter monitor for TSP, PM10, PM4, PM2.5, PM<sub>1</sub> and particle number distribution. 1-minute values of PM10 and PM2.5; all environmental conditions and locations. Scattered light detection of single

# SOLUTIONS FOR RELIABLE **MEASUREMENTS AT ALL LOCATIONS**

#### **ProCeas AIR**

Application: Feature:

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Measuring range: NH<sub>3</sub>, HF, HCl (ppt to ppm); CH<sub>4</sub>, N<sub>2</sub>O, CO<sub>2</sub>, HCHO, H<sub>2</sub>S (ppb to ppm) Gas analysis for greenhouse gases, ammonia precursor of PM, air pollution Remote access, optics cleanable at site, fast response time with LPS

## EDM 280

Application: Feature:

EDM 264

Measuring range: 178 nm to 29.4 µm, TSP, PM<sub>10</sub>, PM<sub>4</sub>, PM<sub>2.5</sub>, PM<sub>1</sub> simultaneously EN 16450 certified environmental dust monitor for measuring networks Only monitor with EN approved 1 minute measurement interval

# Measuring range: 253 nm to 35.15 µm

Application: Mobile particulate matter measurements in its own weatherproof housing TSP, PM<sub>10</sub>, PM<sub>4</sub>, PM<sub>2.5</sub>, PM<sub>1</sub>, particle number distribution, inhalable, Feature: thoracic, respirable

See EDM 264, catalytic stripper to remove the SVC

Mobile particulate matter measurements in its own weatherproof housing

### EDM 264-SVC

Measuring range: 253 nm to 35.15 µm, without SVC (semi-volatile compounds) **Application:** Feature:

# EDM 465

Feature:

**Measuring range:** Number concentration  $D_{50} = 4$  nm or  $D_{50} = 10$  nm Application: Mobile outdoor air measurement Feature: 24/7 to 30 days, own weatherproof housing 5421-TR-CEN 19" CPC Measuring range: Number concentration D<sub>50</sub> = 10 nm **Application:** Stationary outdoor air measurement in measuring station

## 5420-TR-CEN 19" SMPS+C

Measuring range: 10 nm to 1094 nm Application:

Stationary outdoor air measurement in measuring station CEN/TS 17434:2020, large touch-screen Feature:

CEN EN 16976, 19-inch version

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