CO

NO$_2$

NO

NO$_x$

AdS

BTX

PM10

PM2.5

O$_3$

SO$_2$

H$_2$S

airpointer®

Air Quality Monitoring You Can Trust

mlu-recordum
a member of **JCT** GROUP

90 % smaller than traditional measurement stations

Flexible at point of interest

Modular configuration for each application

Easy web browser-based data access

80 % less maintenance costs

airpointer

Approved compliance with legal standards (EN, US-EPA, SEPA)

Successful through more than 30 years in the industry

Turn-key product, up and running in 30 minutes

airpointer modules at a glance

The airpointer is easy to install, cost-effective to operate, and easy to maintain.

The **airpointer's modular** design comprising a base unit, analyzing modules and sensor modules allows for a configuration according to different application requirements.
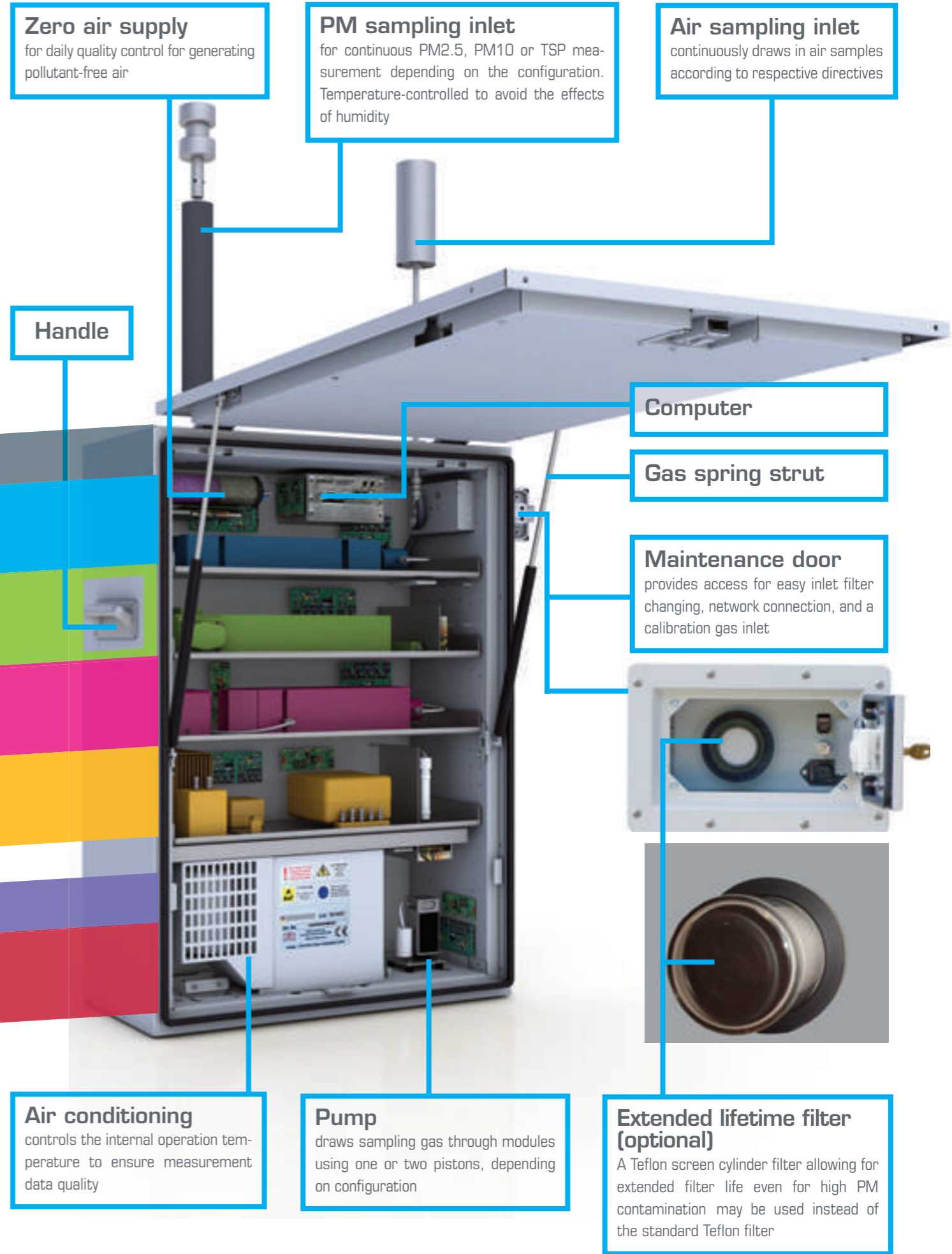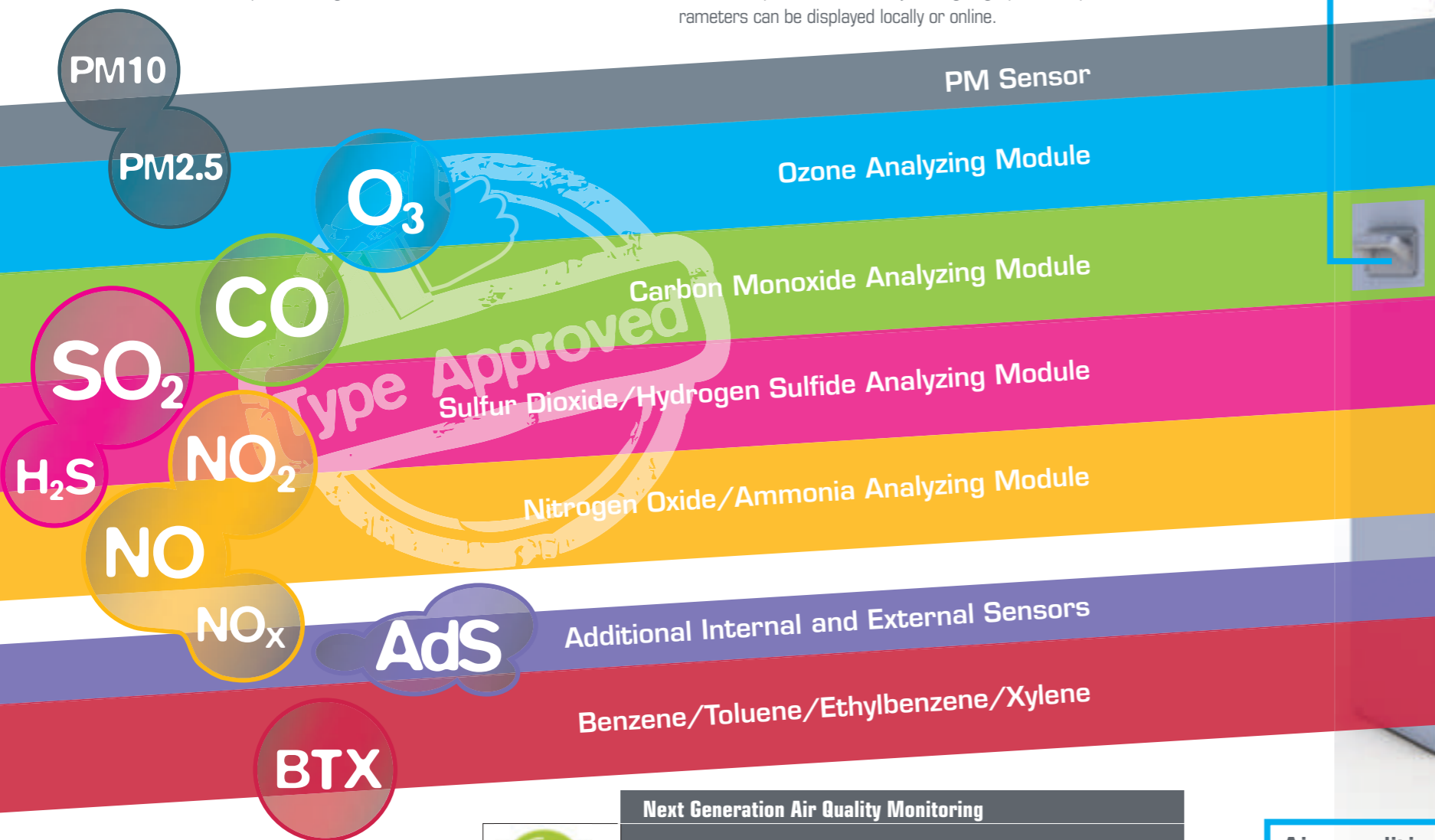
The **airpointer's compact** design enables it to be installed almost everywhere. Due to its optimized thermal management, the airpointer consumes less power compared to conventional monitoring stations.

The airpointer offers a choice of analysis modules using **type approved reference methods** for monitoring airborne pollutants (SO_2, NO_2/NO_x, CO, O_3, and PM) classified as relevant by the EU, the WHO, the US-EPA and further responsible organizations all over the world.

With our fully integrated gas chromatograph we can measure BTX (Benzene/Toluene/Ethylbenzene/Xylene) without any carrier gas and provide daily automated calibration check.

A fast optical system or an **approved PM analyzer** is used for monitoring PM.

The **integrated data management system** records monitoring data of the airpointer's own analysis modules as well as various external third-party sensors. An **internal web server** enables data retrieval by using any Internet connection. Data are available worldwide via access authorisation and can be presented in clearly arranged graphics. All parameters can be displayed locally or online.

PM10

PM2.5

O₃

CO

SO₂

H₂S

NO₂

NO

NOx

AdS

BTX

Type Approved

PM Sensor

Ozone Analyzing Module

Carbon Monoxide Analyzing Module

Sulfur Dioxide/Hydrogen Sulfide Analyzing Module

Nitrogen Oxide/Ammonia Analyzing Module

Additional Internal and External Sensors

Benzene/Toluene/Ethylbenzene/Xylene

Next Generation Air Quality Monitoring

The airpointer's advanced and patented temperature management and energy management systems reduce the power consumption by 90 % versus comparable monitoring stations

According to EU directives
EN14625 (O3), EN 14626 (CO), EN 14211 (NO/NO2/NOX), and EN 14212 (SO2) as well as the respective USEPA standards

The airpointer is produced according to ISO 9001:2008 and is subject to continuous enhancement

Zero air supply
for daily quality control for generating pollutant-free air

PM sampling inlet
for continuous PM2.5, PM10 or TSP measurement depending on the configuration. Temperature-controlled to avoid the effects of humidity

Air sampling inlet
continuously draws in air samples according to respective directives

Handle

Computer

Gas spring strut

Maintenance door
provides access for easy inlet filter changing, network connection, and a calibration gas inlet

Air conditioning
controls the internal operation temperature to ensure measurement data quality

Pump
draws sampling gas through modules using one or two pistons, depending on configuration

Extended lifetime filter (optional)
A Teflon screen cylinder filter allowing for extended filter life even for high PM contamination may be used instead of the standard Teflon filter

	airpointer 2D	airpointer 4D	airpointer PM (HC)
Pollutants Standard modules	2 of the following modules	4 of the following modules	4 of the following modules
NO/NO$_2$/NOX		Weight: 12.0 kg / 26.5 lbs, see page 12 for tech. specifications optional: span module	
O$_3$		Weight: 5.8 kg / 12.5 lbs, see page 13 for tech. specifications optional: span module	
SO$_2$ (H$_2$S)		Weight: 8.5 kg / 18.7 lbs, technical specifications pages 14–15 optional: span module, H$_2$S module	
CO		Weight: 9.0 kg / 19.8 lbs, see page 16 for tech. specifications optional: span module	
PM10/PM2.5		Type approved PM10 and PM2.5 (Met One BAM1020 or EDM 180C	
More sensor modules			
BTX		see page 17 for technical specifications	
	Standard Modules Dust Monitoring:		
	Nephelometer for indicative PM monitoring (PM10, PM2.5) or		
	Multi PM (laser spectrometer) for indicative PM monitoring (PM10, PM4, PM2.5, PM1 and TSP)		
	Meteorological sensors: wind direction, wind velocity, temperature, air pressure, relative humidity, precipitation, made by various manufacturers		
	Traffic data sensors: traffic count, made by various manufacturers		
	Noise sensors, made by various manufacturers		
	Electrochemical sensors for formaldehyde, ethane, chlorine…		
	For industrial applications, environmental hygiene, and indoor air quality monitoring (IAQ)		
	Sensors for monitoring indoor CO$_2$ (IAQ)		
	Navigation system (GPS) for linking monitoring data with geographical data		
Features (Model)			
Dimensions (H/W/D, w/o sample inlets)	890 x 920 x 400 mm / 34.80 x 36.22 x 15.75 in	1120 x 920 x 400 mm / 44.09 x 36.22 x 15.75 in	1480 x 920 x 650 mm / 58.28 x 36.22 x 25.59 in
Weight	65.8 kg / 145.1 lbs	73.9 kg / 162.9 lbs	110 kg / 242.5 lbs
Power consumption*	670 W	max. 670 W	max. 2,000 W
Flow without Dust:	< 2,000 ccm/min	< 3,000 ccm/min	< 3,000 ccm/min
Common features			
Construction	Well-isolated double aluminum construction Standard monitoring modules on removable drawers Rugged, inconspicuous burglar-proof design		
Standard equipment	Internal air conditioning and temperature control Maintenance door Cylinder lock (standard)		
Operating temperature	Zero air supply −20 °C / −4 °F to +42 °C / 108 °F (optional heating for down to −40 °C / −40 °F) (+50 °C for HC)		
Options	Various types of mounting brackets Wireless communication (LTE/UMTS/3G modem,…) Sample gas conditioning (high relative humidity, high PM exposure) Integration of external devices and instruments (e.g. 4 – 20 mA, RS-232, Modbus via IP,…) Solutions to communicate with external data systems (e.g. TCP-IP, Modbus via IP, RS-232, 4 – 20 mA,…) Various base frames and handling devices for on-site operation (roadside, workshop, indoor, pickup truck, trailer,…)		

Type Approved

Reliable point of interest monitoring

Ambient air quality with regard to health-harming substances also has to be considered on a small scale, because local microclimatic conditions may create an air quality considerably differing from a large-scale approach. Health hazards caused by a momentary pollutant concentration increase indicate the necessity of point of interest monitoring.

The airpointer is the ideal tool for monitoring combustion process gases and volatile emissions

airpointer at hot spots and indoors

The airpointer measures areas where people frequently stay and poor air quality affects the health of the individual. Mainly highly frequented places as shopping street, traffic junctions or parks and sports grounds with an intense traffic-related air pollution require reliable measurement data because thresholds will often be exceeded.

People spend more than 80 percent of their time indoors. Frequently, indoor air quality is not better than outdoors. Therefore, continuous indoor air quality monitoring is essential considering that the health of young or elderly people or people in poor health above all suffers rapidly under poor indoor air conditions.

The airpointer provides reliable measurement data at highly frequented locations

airpointer in industry and traffic

The airpointer is the ideal tool for monitoring CO, O_3, H_2S, SO_2, NO / NO_2 / NO_x, PM and BTX, because of its high flexibility. The traffic data sensor is one of many add-on sensors, which may be added quickly and simply. It enables measuring the number of vehicles and their average speed. Resulting data may be recorded and clearly displayed, for example in combination with nitrogen oxide and PM data.

Road traffic-related monitoring with the airpointer, data may be used as control signals for a traffic management system
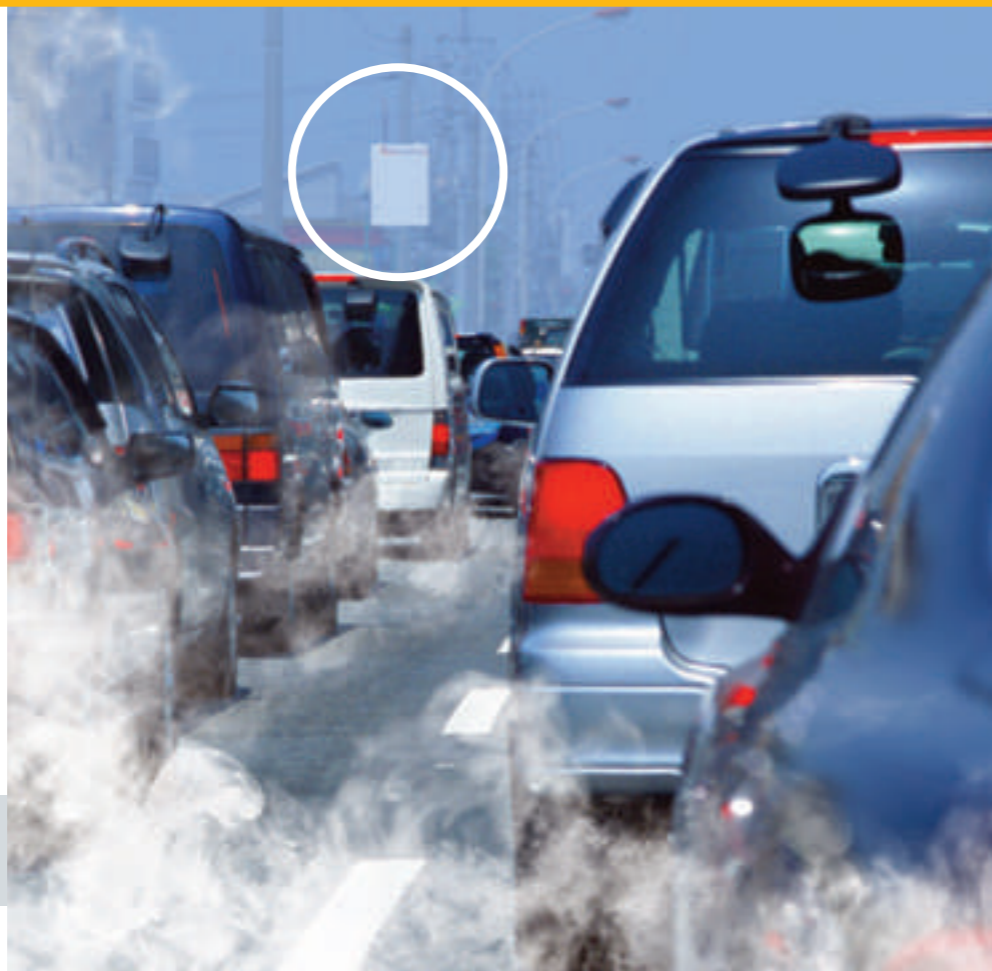
„We can generally choose what we want to eat and drink and where we want to be, but not the air we breathe"

Air quality monitoring at schools, public buildings, shopping malls, and airports (Indoor Air Quality / IAQ)

Measuring where necessary

Traditionally air quality monitoring stations are as big as building site containers, installed mostly on large-scale sites. Not the airpointer. It can be quickly installed, cost-effectively operated and easily maintained.

Mobile operation

It is often necessary to measure briefly at different sites. The compact design of the airpointer makes it the ideal tool for mobile operation.

The airpointer ensures flexible air monitoring while using the required reference measurement methods. The airpointer can be quickly transported by car or trailer to the measurement site where it is needed.
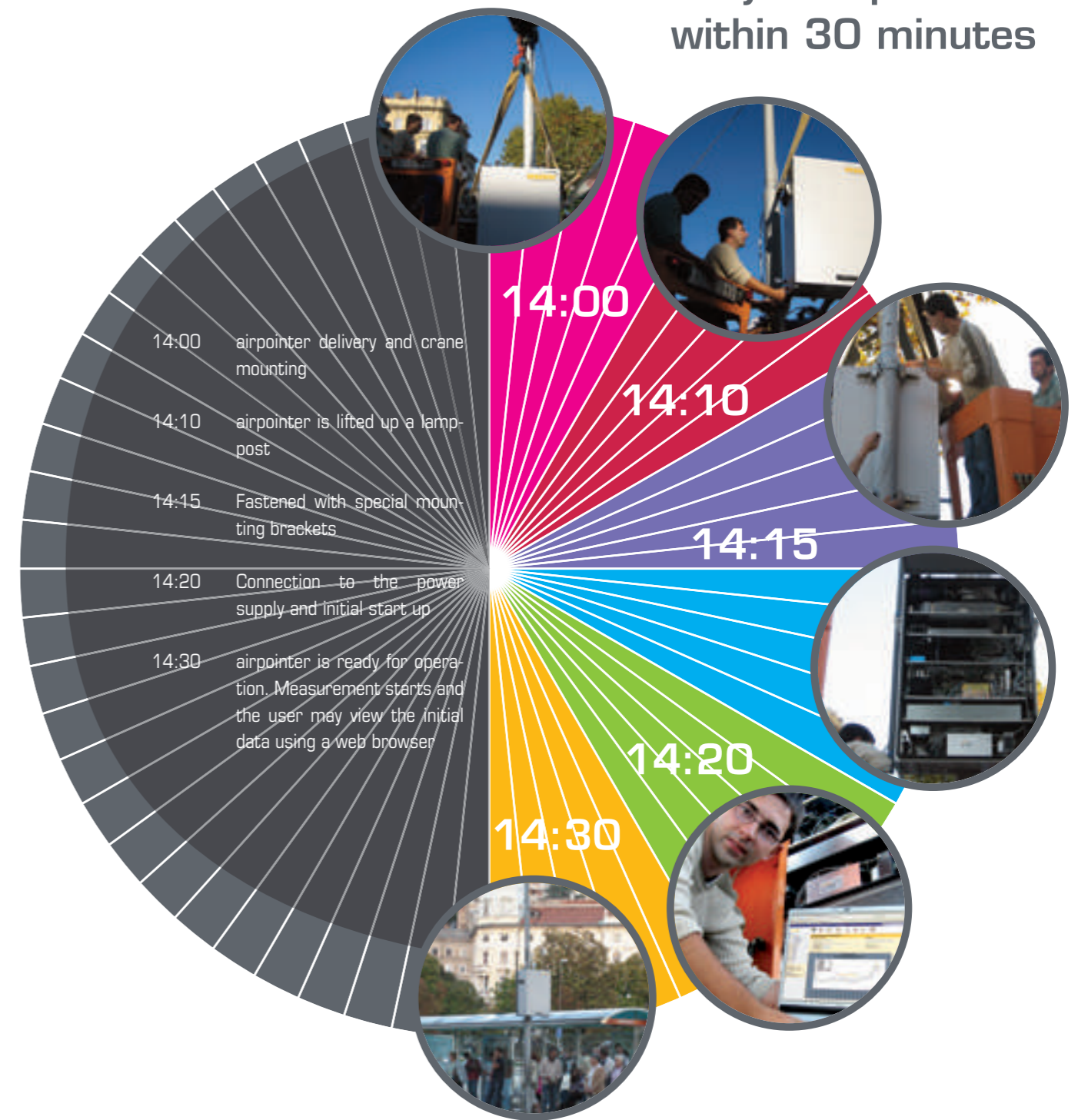
Permanent installation

The airpointer is typically mounted on a pole (or a wall if necessary). Permanent installation is necessary when continuous monitoring over an extended period is required. The airpointer is lifted to the designated position with a crane and mounted with appropriate mounting brackets. It can be relocated within a minimal amount of time.

The airpointer can be transported on a pickup truck or a trailer of the right size

Various options for wall or pole mounting are available

Compact airpointer design enables it to be used for monitoring pollutants in tunnels

Ready for operation within 30 minutes

|	
14:00	airpointer delivery and crane mounting
14:10	airpointer is lifted up a lamp-post
14:15	Fastened with special mounting brackets
14:20	Connection to the power supply and initial start up
14:30	airpointer is ready for operation. Measurement starts and the user may view the initial data using a web browser

Personalize your airpointer

The airpointer is delivered in an unobtrusive design and can therefore blend in with its surroundings. By designing the front of the airpointer as you like you can purposely make it conspicuous or use it as advertising space.

Viet An Group®
Market Leader in Online Monitoring for Environment
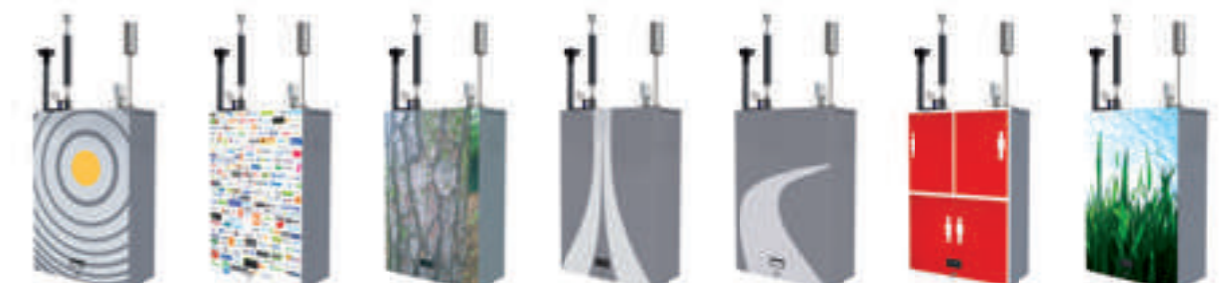
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