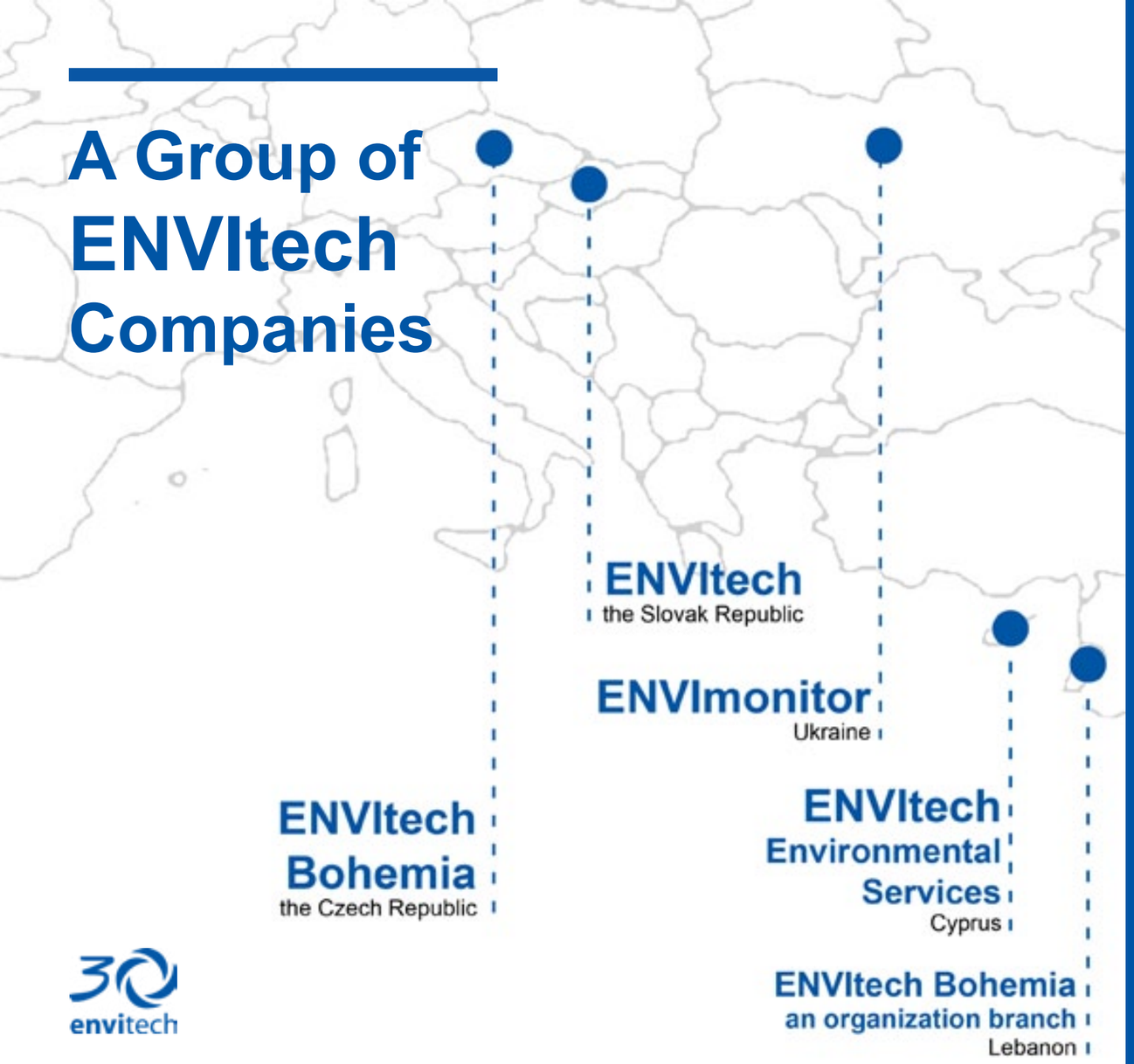
Products and Services Catalogue

envitech

A Group of ENVItech Companies



Contents

Ambient Air Monitoring station
Chopok, High Tatras, Slovakia

Welcome to ENVItech s.r.o.

ENVItech s.r.o. has been providing a comprehensive solution of monitoring systems for environmental protection to customers since its establishment in 1992.

We offer solutions and complete supplies for automated air quality monitoring systems (AMS – AQ), automated emission monitoring systems (AMS – E), hazardous substance leakage warning systems, flood warning systems, autonomous warning and notification systems, automated weather stations.

ENVItech s.r.o. has also been focused on development of our own software products for monitoring systems, from the beginning allowing us to respond flexibly to legislative requirements in the area, as well as the specific requirements of our partners – customers.

The ENVItech work team also consists of experienced developers whose products are applicable in a wide range of our supplies

Warranty service and also post-warranty service is provided for all monitoring systems supplied Services in the area of ambient air quality monitoring by our accredited air quality monitoring laboratory, design of monitoring systems and customer services are also an important part of our activities.

The company is certified according to ISO 9001:2015, as well as ISO 14001:2015.

Our company is certified by the Slovak National Security Authority - Industrial Safety.

More than 30 years of experience in the area of „environmental control systems“.

History of the Company

1992

- Start of the company
- First deliveries for the SHMU - Slovak Hydrometeorological Institute

1993

- Development of our own AMS monitoring stations
- Construction of the SHMU national monitoring network - 25 stations
- Construction of the first warning system in the SR

1994

- Stationary stations for the SHMU (Chopok, Starina, Topoľníky)
- AMS supplies
- Warning systems for chemical industry

1995

- First deliveries of SW
- First Emission Applications
- Project work for NCHZ Nováky
- Reconstruction of the company headquarters

1996

- Development of AQM stations
- Deliveries of monitoring systems to the Czech Republic, Poland, Hungary
- First deliveries for Slovnaft
- Development of a public environment information system (light panels)
- SW Modim design
- Development of a mobile monitoring laboratory

1997

- Opening of representation in Russia (Moscow Automation Center for Complex Automation)
- Construction of the EXPERT warning system for Duslo Šaľa
- AQMS and CEMS deliveries for Slovnaft
- SCP Ružomberok - water monitoring
- PLUTO C, Pollutant Dust Sampler, Datalogger product developmnet

1998

- Development of SW for the SHMU (a trajectory model for parts in the air)
- New Products: Metlog, Sensor, Pluto C +, ADEV 16, MARA 11

1999

- Supply of warning systems for ice-rinks
- AMS deliveries (Poland, Hungary)
- The first SENSOR application in Japan
- Development of MODIM
- The Samara project in Russia

2000

- AMS deliveries for SPP
- Completion of the Integrated Information System for Imissions, Emissions, Water, Waste
- AMS-E deliveries for the Slovnaft Heating Plant
- CAS deliveries to Romania
- First measurement by the station
- MODIM - the Slovak MoE - official methodology in the Slovak legislation
- ENVItech trademark award

2001

- Delivery of electronic sirens and CI2 scrubbing equipment
- AMS supplies for Ysselbach (Scotland, Hungary, Poland)
- AMS deliveries to the SHMÚ network
- AMS-E for Chemko Strážske
- AMS-E for SPP
- Cyclotron Center measurement
- Imission measurement for VW
- Deliveries of special mobile AMS monitoring stations
- First imission measurements for the Slovak National Motorway Company

2002

- Duslo Šaľa - Trickling NH3 - expanding the population warning system
- AMS supplies - Hungary, Romania, Macedonia
- Delivery of 60 WinIMAGs for the CHMI
- Imission monitoring - Cyclotron Center, motorway measurement
- AMS deliveries to Croatia
- Delivery of electronic sirens

2003

- Development of special 8m monitoring stations
- Delivery of 300 ERANs for the CHMI
- AMS-E delivery for Slovnaft
- AMS deliveries - Macedonia

2004

- AMS Deliveries, Macedonia
- AMS-E deliveries to the Czech Republic
- Deliveries of mobile AMS-E laboratories
- Delivery of warning systems, Duslo Šaľa
- AMS-E Slovnaft

2005

- SENSOR deliveries - Germany, South Korea
- NDS - Motorway Measurement
- SW EMS - Finland, Estonia, Turkey
- AMS-E deliveries
- AMS-E Project - Jaslovské Bohunice Incinerator
- Delivery of 54 sampling probes - France
- The Slovak Ministry of Environmnet accreditation award
- SE - start of measurement, Leles, Oslany

History of the Company

2006

- Deliveries of electronic sirens
- Mobile AMS deliveriy, Austria
- Termination of the Cyclotron Center Measurement

2007

- Imissions measurement for the NDS
- Mobile AMS delivery - Poland, Italy
- Stationary AMSs, Czech Republic
- DERENDA sales office

2008

- AMS delivery to Lithuania
- Deliveries of dust collectors
- Imissions measurement for NDS
- Delivery of Derenda and Wados products for SHMU
- Measurement of Imissions, Leles, Oslany

2009

- Delivery of 28 AMSs to Serbia
- AMS delivery to Albania, Macedonia
- Delivery of 4 special AMSs to Cyprus
- Delivery of 2 EMSs - Italy
- AMS-E Delivery - Botswana
- LMKO (SNAS) accreditation

2010

- Measurement, Leles, Oslany
- NDS motorway measurement
- AMS - Albania
- Mobile AMS - Libya
- AMS - Cyprus
- Sanoa delivery - the University of Žilina

2011

- AMS - Germany
- AMS-E - the Žilina heating plant
- AMS-E - TÚ Zvolen
- AMS-E - Strážske
- FIRECO 2011 Gold Medal

2012

- Delivery 39 AMSs - Turkey
- Delivery of AMS mobile laboratories
- AMS-E - Duslo Strážske Fertilizers
- AMS-E K1 - The Zvolen heating plant
- New company logo

2013

- AMS-KO delivery - Lebanon
- Development: Zero Generator and Calibrator
- Mobile AMS-KO delivery
- AMS-E delivery - Libya
- Mobile AMS delivery - VUD

2014

- Measurement, Leles, Oslany
- NDS motorway measurement
- AMS-E - Cyprus
- Delivery of water probes
- AMS delivery - Iraq
- Establishment of the Slovak - Libyan Chamber of Commerce
- Extension of the LMKO accreditation (PM2,5)

2015

- Delivery of 95 AMSs - the Czech Hydrometeorological Institute
- Delivery of 3 mobile Nissan AMSs - SHMU
- 1x weight system - SHMU
- 3x weight system - CHMI
- Delivery of mobile laboratories AMS-KO
- AMS delivery - Egypt
- 2x AMS - Leles, Oslany

2016

- Zouk Lebanon AMS-E
- NDS measurements
- The Slovenské elektrárne measurement
- EAS AMS. Mobile vehicles
- Renovation and modernization of the National Air Quality Monitoring Network

2017

- Duslo Šaľa monitoring
- Eustream
- NDS measurements
- Imission AMS of Žilina heating plant
- CHMU mobile vehicles
- AS - measuring stations deliveries
- The Slovenské elektrárne measurements

2018

- Establishment of ENVImonitor in Ukraine
- Monitoring campaign for air quality measurement in Kiev
- Entering the smart technology market
- Development of sensor applications
- Supply of monitoring vehicles
- Deliveries of stationary stations

2019

- Delivery of monitoring stations with equipment and analytical technology as part of the project Improving the National Air Quality Monitoring Network for SHMÚ
- Delivery of a Mercedes Sprinter monitoring vehicle for the City of Vienna
- Delivery of 3 AMS for nano--measurements for CHMÚ
- Delivery of AQM laboratories for the German market (MCZ)

2020

- Environmental monitoring supplies for the Turkish Cypriot community
- Delivery of special vehicles as part of the project Improving the National Air Quality Monitoring Network for SHMÚ
- Delivery of 2 AMS as part of the construction of the AQM urban monitoring network for the municipality of the city of Kyiv (Ukraine)
- Production and assembly of monitoring stations with equipment for the Bavarian State Office for the Environment (Bayerische Landesamt für Umwelt - LfU)

2021

- Supply of emission monitoring systems for: Žilinská teplárenská, a.s., Zvolenská teplárenská, a.s., Bukocel Hencovce
- Delivery of 3 AMS as part of the construction of the AQM urban monitoring network for the municipality of the city of Kyiv (Ukraine)
- Delivery of a mobile monitoring trailer and a Mercedes van for a project in Lithuania
- Delivery of AMS Vlčie hrdlo for Slovnaft, a.s.

Services and Activities

ENVItech s.r.o. provides comprehensive services in the area of environment protection from problem analysis and project development, to turnkey delivery of monitoring system, training of operatorsand long-time customer services.

We provide our customers complex solutions in the area of air quality monitoring systems (imissions), automated emission monitoring systems, hazardous substance leakage monitoring warning systems with consequent public notification, flood warning systems, meteorological stations

- Air Quality Monitoring Laboratory
- Internet presentation of measured data
- Monitoring systems implementation project
- Warning and detection system project
- Dispersion studies
- Research and development works
- Consulting services
- Service work

The Air Quality Monitoring Laboratory

The Air Quality Monitoring Laboratory as a part of ENVItech s.r.o. is accredited by The Slovak National Accreditation Service as a competent authority to carry out ambient air quality monitoring, sampling of PM2,5 and PM10 fraction of suspended particle, measurement of meteorological parameters, and expression of opinions and interpretations of test results.

Air quality Monitoring of is carried out by the LMKO testing laboratory by mobile laboratories - measuring stations equipped with analysers of individual pollutants in the air, meteorological masts with meteorological sensors, a control and evaluation system with remote transmission of measured data..

Air quality accredited measurement:

Pollutant :
concentration measurement (Carbon monoxide(CO), nitrogen dioxide (NO2), nitrogen oxides (NOx), sulphur dioxide (SO2), PM2,5 and PM10),sampling of PM2,5 and PM10 particles, measurement of meteorological parameters:
(wind speed and direction, air temperature, humidity, atmospheric pressure)
details are shown in the Appendix to the SNAS Accreditation Certificate No. S-276 - Scope of Accreditation.

Determination of selected heavy metals or benzo (a) pyrene in suspended PM10 particles can be subcontracted in an external accredited laboratory.

Accredited sampling of PM10 solid particles, solid particle sampling on a filter for consequent heavy metal analysis in an external laboratory.

We offer ozone and benzene concentration measurement, summary precipitation and radiation balance measurement, transport intensity and composition measurement, other pollutant concentration and meteorological parameter measurement as supplementary non-accredited measurement in excess of the scope of the SNAS accreditation.

Mobile monitoring laboratory

Stationary laboratory - AMS (Automated Monitoring System)

The Monitoring System Implementation Project

Specific solutions for a specific customer in accordance with current legislative requirements in the area of air protection. The project serves as a basis for an approval procedure by air protection authorities for permission of an Automated Monitoring System (AMS) project.

Automated Air Quality Monitoring Systems

Continuous Emission Measuring Systems

The Project covers the following:

- Design of a measuring station and its equipment
- Design of measurement methods, analysers, sensors, and devices
- A control system, data collection, processing and storage , remote data transmission or provision of data to can operator of the monitoring system and air protection authorities/the public
- Providing service after the monitoring system is set into operation

We have implemented projects and made deliveries for more than 1, 000 complete monitoring systems since 1992.

The monitoring station on Chopok

ENVItech production area

Manufactured air quality monitoring stations for dispatch to Serbia

The mobile monitoring vehicle delivered to the Czech Republic

The special monitoring vehicle for the SHMÚ

Themobile monitoring trailer

The CEMS station

The interior of a monitoring station

The AQMS station

The Warning and Detection System Project

We provide comprehensive solutions for monitoring, detection, follow-up notification and warning.

Specific solutions forspecific customer, in accordance with current legislative requirements in the area of population protection. The project serves as a basis for an approval procedure by civil protection authorities for permission of the autonomous system of population warning and notification project.

An implementation project of Local Warning Systems (LWS).

An implementation project of warning and detection systems

The project covers the following:

- Analysis of the area, assessment of risks and sources of threats,
- Modelling of potential threats, the evaluation of the area threats
- Determination of boundaries of reliable warning signal sound effects
- Proposal of optimum solution of a warning system (detectors of hazardous substances, a control system with data transmission, electronic sirens with links to civil protection authorities).

A hydrometric measuring station

An electronic siren for public alert

A percipation measuring station

An electronic siren for public alert

A warning and detection system

A warning and detection system - monitoring station

Dispersion Studies

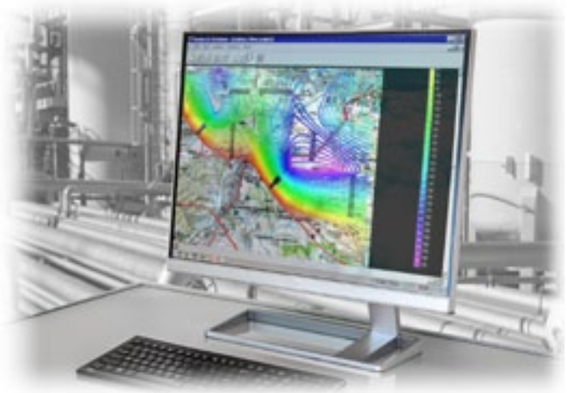
Mathematical modelling of pollutant discharge in the air - calculation of expected air pollution with the WinMODIM dispersion model.

The calculation may include emissions from stationary sources of air pollution (point, area, volume sources) and from line sources of air pollution (motor-vehicle traffic).

Maps of isolines of concentrations of pollutants and concentration values in nodal points of the area considered, or selected reference points, respectively are an output of calculation. The WinMODIM is a product by ENVItech, s.r.o created in cooperation with the SHMU and the GfÚ SAV.

Due to its quality and reliability, it is recommended by the Slovak Ministry of Environment for air pollution modeling.

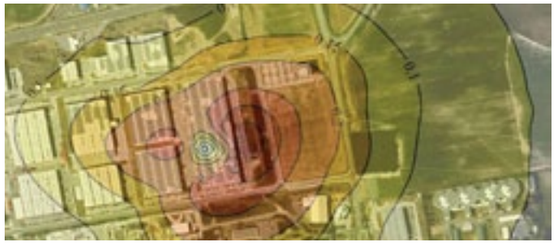
A diffusion study is a document that assesses the impact of existing or planned sources of air pollution on an existing level of pollution in the site.



WinMODIM

Air Pollution Mathematical Modelling :

Stationary sources
Line sources
Stationary and line sources



Visualization of pollution calculation

Internet Presentation of Measured Data

Air protection legislation establishes an obligation for a monitoring system operator to provide data to air protection authorities and the public.

As a service, ENVItech, s.r.o. provides presentation of data from a monitoring system in a form of a Web presentation as a comprehensive solution from data acquisition from a measuring system, data conversion into a suitable format, up to creation and management of a Web page displaying the required data .

Measured data can also be presented using light panels located on measuring laboratories, facades of buildings or free-standing ones.

Comprehensive web presentation created based on customer requirements

Data presentation on LED panels

Research and Development Activities

In the area of environment monitoring systems, including control system software, we offer development activities according to customer´s requirements - development of new products, as well as modifications of existing products. In spite of a wide portfolio of ENVItech, s.r.o. products, a large part of which comes from our own development, it is not possible to meet all specific customer´s requirements with products delivered as standard. In this case, we can modify existing products or develop new products according to specific customer´s requirements.

Consulting Services

In the area of environment monitoring systems, we provide comprehensive advisory services from legislative requirements concerning the monitoring systems, approval procedures up to implementation, operation and maintenance.

The experience of our employees, both theoretical and practical, and being well up in legislation allow us to provide consulting services from various areas of environment monitoring.

Service Work

We provide both operational and prophylactic warranty and post-warranty service for all monitoring systems and products delivered by us. Our knowledge and experience, permanent specialised training of personnel and high-quality technical equipment and facilities enable us to provide service at a high professional level.

- Development activities and modification of existing units and products
- Development activities in the area of monitoring system software

Development of arrangement of instrumentation in a monitoring laboratory

Monitoring Systems

Our solutions and complete deliveries are offered for automated air quality measurement systems, automated emission measurement systems, hazardous substance leakage warning systems, flood warning systems, autonomous warning and notification systems, automated weather stations.

Monitoring laboratories

Air quality monitoring systems

Automated emission monitoring systems

Warning and detection monitoring systems

Local warning systems

Meteorological systems

Monitoring Laboratories

Isothermal measuring stations of our production feature structural characteristics providing the following:

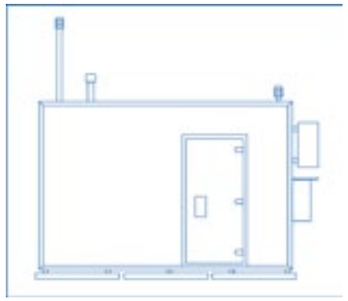
- Mechanical and electrical conditions for location of a measuring system
- Stable, defined climatic and thermal conditions
- Protection against electrical and mechanical damage to the system
- Conditions for safe and comfortable operation of a measuring system by operators

We offer dimensionally standardized solutions for monitoring stations:

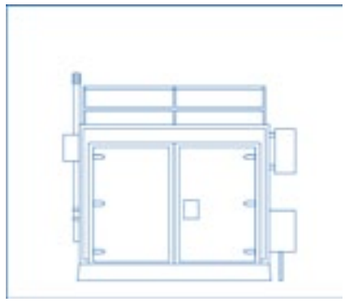
Modules:
- 2 m x 2 m x 2.2 m
- 3 m x 2 m x 2.2 m

Stations of any size can be delivered based on your requirements.

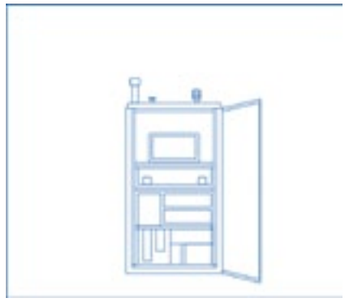
According to the purpose of use of a monitoring laboratory, stations are divided as follows:
AQMS APPLICATIONS
CEMS APPLICATIONS



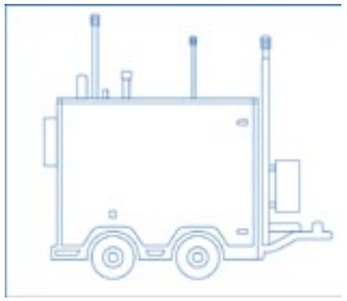
A stationary station



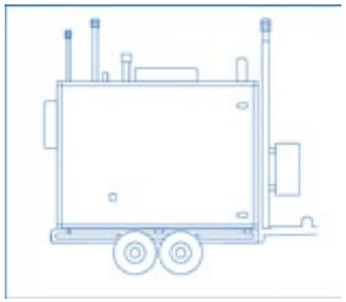
A stationary station - HOTSPOT



A stationary station - HOTSPOT mini

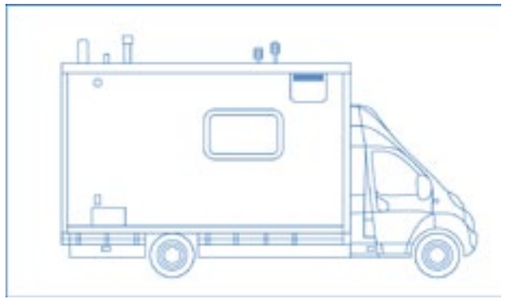


A mobile trailer with a fixed chassis



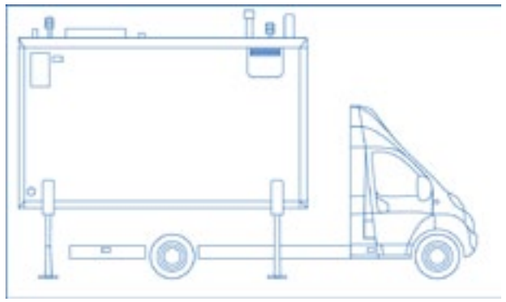
A mobile trailer with a removable chassis

A mobile trailer - cart



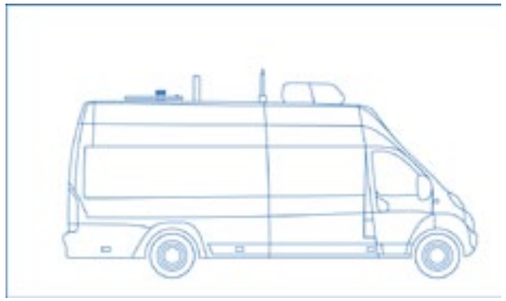
A fixed vehicle body

A removable vehicle body



A removable vehicle body with mechanical supports

A removable vehicle body with hydraulic supports



A special monitoring vehicle - modification

Air Quality Monitoring Systems

Air quality monitoring systems have been the most prominent group of products offered by ENVItech s.r.o. for long time.

The company has been specializing in air quality monitoring systems since its estabilishment in 1992, with an emphasis on continuous upgrade of the products offered.

The ENVItech designs and delivers comprehensive „turnkey“ systems and stations for continuous automated air quality monitoring, as well as individual measuring devices, automatic analysers in most cases.

Monitoring systems may include gaseous pollutant analysers , as well as suspended particle concentration measurement systems.

Monitoring stations can be delivered both in stationary and mobile versions.

In addition to automatic monitoring systems, the company is focused on dust aerosol and gas pollutant sampling devices. These samples are intended for subsequent laboratory processing.

In connection with air quality measurement, we provide complete deliveries of measuring stations with accessories and equipment as per customer´s requirements, analysers, technical support, as well as warranty and post-warranty service.

Special monitoring vehicles

The monitoring station in Turkey

The stationary station on Chopok

A stationary station

HOTSPOT stationary station

We have got experience with a wide range of laboratory instruments by world manufacturers

A mobile monitoring trailer

The interior of a monitoring vehicle

A removable vehicle body with hydraulic supports

A special monitoring vehicle

Continuous Emission Monitoring Systems

We offer comprehensive solutions for continuous emission monitoring. Deliveries include world-class analysers, including all system-related services.

ENVItech, s.r.o. provides following in the area of emission AMS :

- Design of a Continuous Automated Monitoring System (AMS)
- Preparation of an AMS implementation project for approval by air protection authorities to permit installation of the AMS
- Delivery of individual pollutant analysers and software for continuous emission monitoring in accordance with current legislation
- Deliveries of isothermal containers for the AMS placement
- Turnkey deliveries of complete AMS including provision of measured data to air protection authorities and the public (AMS data web presentation)
- Deliveries of process AMS unit to control technological processes
- Development of AMS software in accordance with legal requirements and on the based on specific customer´s requirements
- Ensuring that the AMS function test is carried out in accordance with legislative requirements.

In addition to deliveries, ENVItech also provides professional service to ensure quality measurement of emissions.

A special monitoring station for emission measurement 8 m long

Our rich experience gained in AMS deliveries for various industries create a prerequisite for providing high quality AMS deliveries to customer´s satisfaction.

For simple system operation, our own proprietary, user-friendly and custom-made software is prepared to meet the customer's needs.

A monitoring station for continuous emission measurement

The interior of a CEMS station

We have got experience with a wide range of laboratory instruments by leading manufacturers

Stationary CEMS stations

Monitoring of Industrial facilities

Monitoring systems for chemical industry

Warning and Detection Monitoring Systems

Services provided in the area of warning and detection monitoring systems:

- Delivery of integral systems for businesses in the area of warning systems
- Delivery of gas technological leakage sensors, their detection, localization, warning, prognosis, alarm, mathematical modelling of a prognosis of gas propagation in the air
- Delivery of small technological warning systems for businesses
- Delivery of electronic sirens for warning of population against threats in compliance with CO (civil protection) legislation
- Preparation of noise intensity measurement projects for installation of electronic sirens

The Autonomous Warning and Notification System Project

Our emergency systems reveal occurence of unusual situations of a production facility before an actual accident occurs, thus ensuring so called emergency prevention. An emergency system usually consists of a set of sensors spread in a protected zone, connected to an automatic control and evaluation system - a control panel issuing emergency signals (acoustic, optical, action for technological closures, ...) located in an immediate vicinity of the production facility. A common visualization system of one or more PBX units is located in a central control room. Firts of all, such toxic and explosive gases as hydrogen, methane, phosphine, silane, diborane, germanium, chlorarzine, hydrogen chloride, hydrogen fluoride, chlorine, ammonia, hydrogen sulphide, ozone, etc. are detected.

Requirements of chemical industry for monitoring of hazardous gas and waste leakage are met by delivery of expert systems, dealing with requirements for security and protection of employees in a complex way, including preparation of chemical risk analyses and implementation of warning information systems in accordance with current legislative requirements in the area of population protection.

We offer you a wide range of warning and detection instruments

WinModim - software for warning and detection systems

Local Warning Systems

The LWS (Local Warning System) serves to warn the population against floods, first of all against storm rainfall (e.g. in storms). It consists of several separate measuring stations and a central station.
According to the measured quantity, they are as follows:

- A precipitation measuring station
- A water measuring station

The water measuring station measures a water level in a stream in front of a town. A measurement interval is 5 minutes, i.e. a level height in a stream is measured once in 5 minutes and the measured value is compared with four different limits. When any limit is exceeded, the station sends a warning message.

A precipitation measuring station measures a rainfall volume. Every 5 minutes, the station evaluates whether the limit was not exceeded. The station evaluates four limits ; summary precipitation for the last 5 minutes, 30 minutes, 60 minutes, 12 hours. If the limit is exceeded, the station sends a warning message.

The central station is usually located at a municipal office. The central station is a computer with WinCentral and SQLView (Visualis) running on it.

The WinCentral communicates with stations, downloads data and limit exceeded warnings from them, checks functionality of the stations; the SQLView presents the measured data. The stations communicate with the central station via GSM, dialled lines or via a radios.

Percipitation measuring station of the LWS

Meteorological Systems

For correct interpretation of air quality measurement results, it is also important to know meteorological conditions during the measurement. Therefore, we implement individual meteorological sensors or compact weather stations into monitoring systems as a part of air quality monitoring systems.

Wherever it is necessary to measure meteorological parameters, whether in agriculture, industrial operations, transport or energy industries, we can offer our customers fully autonomous automatic weather stations. High quality sensors and development of our own software and dataloggers enable us to respond dynamically to specific customer´s requirements and provide reliable measurement and accurate data to them. Of course, a project and technical support is provided.

Comprehensive solutions:
– Meteorological sensors, sensor mounts, a meteorological mast, cabling, connection to a power supply or solar panel – Datalogger for data collection, processing and storage – Central data transfer station – SW for visualization in a form of charts, tables, data export to spreadsheets.

The monitoring vehicle roof with sensors for meteorological measurements

Variable sets of weather stations. Measurement of meteorological parameters as recommended by the World Meteorological Organization (WMO).

air temperature - relative air humidity - atmospheric air pressure - wind speed and direction - solar radiation - atmospheric precipitation

A meteorological garden in the High Tatras

Meteorological systems for monitoring stations

We offer a wide range of products for monitoring of meteorological variables

A meteorological mast on the AMS Chopok

ENVItech Products

IMISSION MONITORING SYSTEMS
- Samplers
- Weight systems
- Analysers

EMISSION MONITORING SYSTEMS
- Analysers

DETECTION AND WARNING SYSTEMS
- Detectors
- Sensors

METEOROLOGICAL SYSTEMS
- Dataloggers
- Pluviometers
- Air temperature and relative humidity sensors
- Atmospheric pressure sensors
- Wind speed and direction sensors
- Solar radiation sensors
- Masts

E-log datalogger
Aures
ENC 2000 calibrator
EG7 zero air generator
E-com protocol translator
Sampling system
RegFlow14 flow regulator
EAPM2
E-mam hydrological datalogger
HVS connection leakage tester
High voltage power supplies
Meteorological Masts

enviDUST

Datalogger E-log

Intelligent system for monitoring and operation of monitoring stations.

Versatile and robust tool intended first of all for measured data acquisition and processing as well as for remote control of system components.

Due to its versatility, it can be used for almost all measurement of variables. A 16-megabyte internal memory or an external micro SD card can be used for storage for data collection. Data storage can be set in any intervals as needed. Data can be stored on an external memory using a micro SD card. The E--log uses communication via an integrated GSM GPRS modem with a slot for a SIM card of any operator to communicate with a central station. A 3 V battery is used in case of power supply outage for real time backup.

The product is designed for stations with low power take off. An overall concept of the product is set to save energy while maintaining maximum performance and device options. It brings savings in operating energy costs while maintaining comfortable control. Remoted control of the product using user-friendly software saving costs necessary for operation of datalogger is a major benefit. The whole
station can be operated remotely in comfort without having to travel. Reliable operation and performance of the E- LOG datalogger is provided by the CPU with the ARM 32-bit core, running on 96MHz. Thus, the product is suitable very much for measurement on stations in less accessible areas without a sufficient power supply or for remote stations the operation of which is not very accessible.

Main applications:

- Communication with connected analyzers and weather sensors
- Analysis of measured values from sensors and analyzers
- Record measurement data in the selected interval
- Remote control system elements
- Measurement of process variables
- Communication with central station

Benefits:

- Modular device
- Small energy intensity and energy consumption
- Easy to operate with remote access
- Up to 16 analog inputs and 6 digital outputs
- Robust and light concept with small overal dimensions
- Reliable measurement with optional data storage capabilities

Convertor of communication protocols E-com

Data acquisition device

CPU 32-bit ARM:	max. frequency 36 MHz
RTC backup Li battery:	error time at 25°C ±10 ppm
Internal memory 8kB FRAM:	high durability 10^{14} inscription, data storage for minimally 30 years
Communication interface:	• 1. RS-232 • 2. RS-422 alebo RS-485 (double line or quadruple line) • 3. Ethernet
RS-232/485 communication:	• Modbus • Bayern • Hessen • Thermo • Horiba • Teom • API • BAM • Derenda • Environnement • Gill • Vaisala
Ethernet:	10 / 100Mb RJ45 implicit IP.192.168.1.5 protocols IP, UDP, TCP, http, EnviNet
Digital outputs:	contact relays optionally NO/NC –indication of error
Magnetic sensor:	contactless control of programming mode up to 5 cm range
Signalization:	4 × LED signalizing states
Power supply:	8 VDC - 26 VDC
Consumption at12 VDC :	0,3 A
Protection:	polarity protection
Operating temperature range:	- 20°C - + 60°C
Operating humidity range:	5...95%
Dimensions:	125 × 80 × 25 mm
Ingress protection:	IP40 material Al 6063
Weight:	0,45 kg

E-Dat

Device for data reading from measuring devices and sensors via serial communication and analog inputs.

Functions of E-Dat:

- communication with sensors and devices via 3 serial lines (RS232/RS485)
- reading of 8 analog inputs
- communication with sensors via OneWire bus
- display of current values
- communication with WinImag via Ethernet interface
- remote control via Ethernet
- upgrade firmware via USB

Processor	ARM 32-bit 144MHz
FRAM – configuration	8 kB
Display	OLED 128 x 64 points
Keyboard	membrane keyboard 25 keys
UART – COM1, COM2, COM3	RS232/RS485
USB	upgrade firmware
Ethernet 10/100 Mbit	EnviLan protocol (WinImag) remote control (ERemoteControl)
inputs	8 analog ADC 12-bit
outputs	8 performance 3 outputs TTL level
One-Wire	temperature sensor

ERemoteControl

OSYS 02

The sampling system
for sampling of
gaseous pollutants

The sampling system for sampling of gaseous pollutants consists of a stainless steel sampling probe and a borosilicate glass manifold from where sampled air is sucked by suction pumps of individual analysers.

Ambient air is supplied to the sampling system by a manifold pump, excess air is fed through an exhaust outlet out of the metering station. Required flow of the air through the sampling system is achieved by means of a flow sensor and a flow controller.
The sampling line and the manifold can be heated (optionally) to prevent from air humidity condensation.

The sampling system is designed in accordance with technical standards for measurement of individual gaseous polluntants (e.g. STN EN 14211 and the STN EN 14212) and the STN 83 5510 standard.

Flowmeter
EE671

Digital Controller

RegFlow

RegFlow is a device
for controlling the flow of air in the
manifold.

RegFlow is a device for controlling the flow of air in the manifold. According to the technical standard, the sample flow in the manifold should be constant at 50 l / min. In the manifold there is a sensor for measuring the air flow, the output of which is connected to RegFlow. RegFlow regulates the fan speed to maintain a constant flow in the manifold. RegFlow has an Ethernet connection that provides actual values and the controller can be configured via WEB. The controller is implemented by PID controller, low and high flow indication via red LED.

AuRes

Smart system of supervision, operation
control and monitoring of all supporting
functions in the measuring station

AuRes features:

- Communication with 3-phase electricity meter via RS-485 and reading of actual values of voltage, currents and consumption on individual phases
- Communication with UPS via RS-232 and reading of actual values
- Measurement of temperature in the measuring station
- Actual values are accessible via Ethernet
- Control of the heating and air conditioning according to the current temperature in the measuring station
- Control of START button
- Sequential connection of electrical circuits in the measuring station (RACK1, RACK2, ...)
- Switching off electrical circuits (RACK1, ...) at low or high temperature in the measuring station
- Remote restart of electrical circuits via Ethernet

WinCentral

Vzdialené ovládanie
ERemoteControl

Proccesor		ARM 32-bit 144MHz
FRAM - configuration		8kB
Display		OLED 128 x 64 points
Keyboard		Membrane keyboard 25 keys
UART	COM1	RS232/RS485 - electrometer
	COM2	RS232/RS485 - UPS
	COM3	RS232/RS485
USB		upgrade firmware
Ethernet 10/100Mbit		EnviLan protocol (WinImag, WinCentral)
		remote control (ERemoteControl)
Inputs		8 analog ADC 12-bit
Outputs		8 power for switching contactors
		3 outputs TTL levels
One-Wire		temperature sensor
Power backup		external UPS (option: own battery)

ENC 2000

Calibrator
Dynamic dilution system

Dynamic dilution system enables:
- Multipoint calibration (manual setting by operator and automatic-programmable) 5 points
- Automatic calculation of dilution and span gas based on commanded concentration

EG7

Zero Air Generator

EG7 is a powerful stand - alone unit, so there is no need for you to worry about an external compressed air supply.
The air is a perfect method for generating zero reference calibration gas, ultra - pure combustion air for flame ionization detector, service air for pneumatically operated valves, hydrocarbon free chromatography use and general laboratory use.

• version for wall mounting (optional) • inlet pressure max. 1 MPa • outlet pressure 100 kPa • display of outlet pressure using a pressure indicator • air flow max 5 l / min • air drying by penetration • air purification with activated carbon and molecular sieve • content of O3, SO2, NO, NO2 <1 ppb • catalytic CO removal • CO content <100 ppb • compressor pressure vessel 2 l

Hydrological datalogger E-mam

Datalogger for recording of hydrological and meteorological data

EMAM is a datalogger for recording of hydrological and meteorological data. In a set with MAM6 and MAM7 water level sensors, it stores data in a memory and then it evaluates them according to pre-set criteria for exceeding level and flow.

The recorded data can be transmitted over the GSM network to a remote server or a data store. To inform on extraordinary values, the EMAM sends SMS messages to defined numbers. EMAM is equipped with GSM and Bluetooth remote configuration management. All settings and values can be done via a graphical display with backlight and a keyboard.

Device can operate in an environment with condensing water vapours at temperature between -30 and +50 °C. Memory capacity is 200,000 records. EMAM is designed for long-term operation without battery replacement for minimum 5 years. An anticipated battery life is maximum 15 years. The EMAM is designed to be placed directly into a borehole or a well.

Presence of a signal damped by a steel structure and reinforced concrete is a condition for communication via GSM. The water meter is connected to the EMAM by a communication cable with maximum length of 1,500 m.

Diameter	Ø 80 mm
Height	200 mm
Weight	2kg
Memory	8 MB
Processor	32 bit
GSM services	SMS, GPRS
Batery	Li 3,6V 16Ah
Displ	102 x 64 pt.
Connectivity	USB, Bletooth, RS 485

enviDUST and enviSENS

PARTICULATE
MATTER MONITOR

AUTOMATIC AMBIENT
AIR SENSOR MONITOR

The enviSENS and enviDUST units are devices used for online monitoring of air quality in a designated location. For this purpose, it uses different types of sensors according to the customer's requirements for monitored quantities. Dust sensor - monitoring the size and amount of particles of the fraction PM 1, 2.5, 10 in ug/m3 working on the optical principle in the range of 0-5000 ug/m3

Measurement of mass concentration and number concentration of aerosol particles in real time and in real time.
Optical method based on the principle of light scattering

Hybrid
monitoring
system

Miniaturization, the development of sensory sensors, IoT--type transmissions, Smart Cities concepts, all this enables the creation of air monitoring systems that do not represent such an expensive investment as in the past.

However, the quality of the data of these sensor systems and their interpretation must be constantly confronted with the data that are produced by instruments working with the reference method, according to valid standards, so that inaccurate information about the state of the air does not occur.


sensory units


reference measuring station


software

Meteorological Masts

Our company designs and manufactures meteorological telescopic masts according to client's requirements. A multi-segment stainless variant up to 10 m high is mostly of concern. We also provide complete accessories for masts including PP clamps for fixing on the container wall for air quality monitoring systems and anchorages for „stand-alone" meteorological applications, beams for weather sensors and radiation housings. The company also supplies pneumatic and hydraulic masts, which serve a wide range of applications.

HVS
Connection Leakage Tester

The EHV05 insulation tester is a portable tester of insulation made of HDPE, PE, PVC, PTFE and other waterproof materials, organic and inorganic acids. The tester is designed for work outdoor without the risk of fire. The EHV05 tester probe moves over the insulation surface and in a place where the insulation is interrupted, its test voltage causes electrical breakdown up to a distance of 25 mm. The size of a cross section is primarily dependent on subbase conductivity. The size of the hole in the insulation is not significant and it is sufficient for the detector to have air in the hole.

High Voltage Power Supplies

for Geophysical measurements

Output insulated voltage:
EGZ 5000 – 5,000 VDC max 0.2 A; 2,500 VDC max 0.4 A
EGZ 1000 – 1,000 VDC max 1 A; 500 VDC max 2 A; 250 VDC max 4 A; 125 VDC max 8 A
EGZ 200 – 1,000 VDC max 0.2 A; 500 VDC max 0.4 A; 250 VDC max 0.8 A; 125 VDC max 1.6 A
• Insulation strength min 20 kV • Protection class II EN 33 2000 • Power supply 230 VAC max 6 A • Output control: manual or automatic with a selectable cycle 1 to 60 seconds • Display: output voltage, output current • Climatic resistance: -20 to +80°C/RH 90%, non-condensing vapours • External dimensions: 52.4 x 42.9 x 20.6 cm • Version: IP65 – rain and running water resistant • Weight: EGZ 5000 – 25 kg, EGZ 1000 – 15 kg, EGZ 200 – 7 kg

A complete portfolio of products can be found at www.envitech.sk

We offer the following accessories for monitoring stations

Sampling head of Ambient air sampling system
Head with filter, tap, insertion, spreader, tube

Sampling system of ambient air OSYS , isolated
OSYS, isolated + heated by self-regulating cable
B.02 + self-regulating heating cable + tube for insulation

OSYS, isolated + heated with digital controller with adjustable temperature
B.02 + Digital controller + heating cable + connectors + thermom-eter + power suplly

Glass manifold 8- outlets
Manifold 25/33GZ, 8xGL14, 1 x GL25, L=1080 mm

Glass manifold X- outlets *
Sampling probe roof duct

Sampling system holder for mobile AMS, plastic
Telescopic mast, mechanical, stainless steel - ENVItech
4 - segments, length of 1 segment 2,5m, total length 10 m

Teleskopický stožiar, mechanický, nerez - ENVItech
4 - segments, length of 1 segment 2,5m, total length 10 m
folded ~ 2 600 mm , extended ~ 9 280 mm
alternative : 5 - segments : folded : 2300

Custom mast according to the client's technical requirements
Container clamps for mast B.20 a B.21
Anchoring plate for free-standing mast (version Lebanon)
Pneumatic telescopic mast with duct - 10 m
pneumatic mast STANDARD CS.3608.NI, (10m), duct, Ø 115 mm,

Pneumatic telescopic mast with duct - 6 m
pneumatic mast CL.3338.NB, (6 m), duct Ø 90 mm

Arm for meteosensors with holder (according to customer specification)
Meteo switchboard - box with cabling
Meteocable multicore, PVC box, terminals, DIN listel, cabling, cover

Reduction for meteo sensor GILL WindSonic
Reduction LUFFT (stainless steel, for mechanical mast ET)
stainless steel, for items B.20 a B.21

Radiating cover with arm

Duct for dust analyzer Envea MP101 M
plastic design

Duct for dust analyzer FIDAS 200
dural + plastic design (Ø 48,3) + komaxit RAL5005 + anodized

Duct for sampler Leckel & Derenda
plastic design, Ø 80 - 90 mm

Duct for sampler APM2 (Derenda) Ø 12mm
Duct for dust analyzer SWAM Ø 25 mm
Blinding nut
probe cover for Leckel & Derenda Ø 90 mm

Blinding nut
probe cover for Fidas Ø 48,3 mm

Digital manometer E-press3
(output RS485, SDI-12, analogue, range 0...2,5V)

Calibration cylinder holder (3 cylinders)
Calibration cylinder holder (4 cylinders)
Calibration cylinder holder (5 cylinders)
19´´ rack, galvanized sheet metal
two-piece 19´´ stand, depth 600, 700, 800 mm, height : 38-45 U

Shelf solid perforated 1U, 550 mm, load capacity 80 kg
Pull-out shelf lockable for keyboard and mouse
Pull-out shelf (depth 350 mm), load capacity 30 kg
Pull-out shelf (depth 450 mm), load capacity 30 kg
Pull-out shelf (depth 550mm), load capacity 45 kg
Pull-out shelf (depth 650mm),load capacity 45 kg

Fire extinguisher, portable - according to requirement
(holder + pictogram)

Rebrík (hliníkový, dvojdielny 7-priečkový) + držiak
Ladder, telescopic, load capacity 150kg, lenght 3,8m, dural
Working table with drawers + drawer container
dimension in terms of requirements

Folding board (as a table)
designed mainly for mobile trailers

Chair
Chair with armrests, rotary

Display frame rack mounted

Protective sleeves for probes on the roof of the monitoring station (1 set)

We offer the following support equipment for monitoring stations

Calibrator ENC 2000
ozone generator, massflow meters
with linearization through 6.grade polynom

Zero air generator EG7
oilless compresor, system for purifying ambient air
(purafil, active coal, molekular sieves
silikagel, piecka CO-CO2)

Alarm Satel VERSA
fire-optical smoke sensor, external siren with LED,PIR,
power box, keyboard, control panel, battery

Alarm system TECO
Control panel, keyboard, battery, PIR, smoke detector,
magnetic sensor, siren,

Flow sensor in sampling system EE671
Flow regulator RegFlow14´
Ventilator Artic F8 PWM Rev.2 - accessories for Regflow
AuRes - Automatic restart
management and control unit in AMS

SW e-Remote Control
remote connection and control of
dataloggers ENVItech + AuRes

Electricity meter + voltage + current measurement (three-phase)
Three-phase electronic electricity meter, LCD display,
RS485 (Modbus), IR interface, Billing meter

Electricity meter + voltage + current measurement (single phase)
single-phase electronic electricity meter for direct measurement
LCD display, RS485 interface

E-log datalogger
E-cal „datalogger“ for serial communication
e-log without modem, SD card and 24-bit converter

E-dat - device for data acquisition via serial + analog
EMAM - datalogger with interface RS485, GPRS
Firmware for dataloggers ENVItech

E-com
Convertor (translator) of communication protocols

Autonomous impuls counter for raingauge – MR2-01
connected to E-log

Lightning arrester modul - UniPro10
AMS internal lightning protection

16-port switch , rack version
MOXA card , 2-port
ESA merge unit
Teltonika router RUT 240 4G/LTE

Electrical switchboard with equipment according to the project
1 phase or 3 phase switchboard, electrical installation, circuit breaker,
circuit breakers, contactors, surge protection, cabling ...

Air conditioning unit (SPLIT system) - cooling and heating
power: 2,5 - 3,5 kW, including bracket, assembly and filling

Heater- power 2 kW
Display light panel
Depending on the required size and tech. parameters

Software

WinIMAG

WinEMAG

WinCentral

Visualis / WebVisualis

WinModim

Delivery of comprehensive monitoring systems is also conditioned by software of the system.

The software of our own production provides the following functions:

- Data sensing and transmission from measuring devices, sensors and analysers to an evaluation PC
- Acquired data processing into a presentation format and its storage in database systems
- Data processing and transfer to a higher - level superior system (modem - fixed line, modem - GPRS, internet, intranet, ...)
- Measured data presentation of on a processing (measuring) PC, on a superior (central) PC or on the Internet
- Status signal monitoring, processing and evaluation
- Control of instruments and analysers in a calibration mode (automatic calibration)
- Calculations of secondary data from primary measured data
- Creation of protocols and records according to legislative requirements

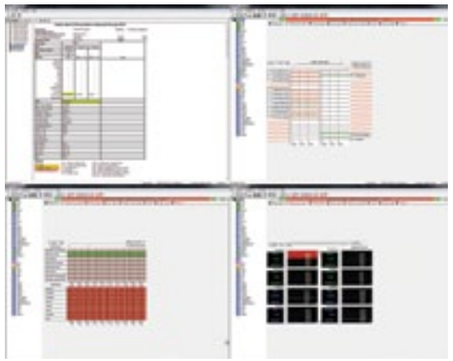
"More than 1 000 of our applications for data management, processing and visualisation are used worldwide with great success."

WinEmag is a complete emission monitoring system, providing high quality and comprehensive tools for continuous emission monitoring systems. System modularity, its high flexibility, and universality allow connection of several emission sources to one data acquisition system only. In addition, it is capable of real time monitoring of all required values directly from analysers and digital or analogue inputs.

The WinEmag system provides emission monitoring in accordance with Directives of the Slovak Ministry of Environment No. 410/2012, Coll., 411/2012 Coll. sa amended and complies with STN EN14 181 requirements.

The WinEmag also contains professional tools for data evaluation, analysis, visualisation, reporting, and presentation. This module is referred to as Visualis and it provides the following functions through a user-friendly interface:

- Data validation according to current regulations
- Built-in statistic tools, data filters, attributes etc.
- Cross check with legal limits
- Moving (rolling) or interval averaging function
- Hourly and daily trends of acquired values, daily statistics - acquisition of alarms and fault detection
- Evaluation of zero and calibration drifts (in compliance with QAL3)
- User selectable data outputs: charts, tables, wind or concentration of roses, statistic diagrams, calibration protocols, CUSUM cards, etc.
- Simple and easy access to your database, possible data conversion
- Own mathematical formulas and visualization schemes can be created, data processing based on projects and users
- User selectable export forms
- Easy reporting



The WinEmag also provides a Web presentation tools, allowing display of all status parameters in the stack and measured data on a Web page.

The **WinImag** is a standard and universal communication, measuring and evaluation software for continuous air quality monitoring. The WinImag communicates with analysers, devices and sensors via universal drivers enabling connection to any standard communication protocol based device. The system can be expanded to other standards, so any analyser , sensors of statuse variables and auxiliary variables necessary for continuous emission monitoring can be connected.

The following criteria were taken into account for the software design:

- Compliance with requirements of current regulations for air quality monitoring
- Compatibility with Windows 10 and older Windows versions
- Design of reliable and user-friendly software
- Design of a system allowing simple configuration
- Allow the user to modify the configuration
- Design of a flexible and modular system for measured data processing.

The use of standard visual and control elements of the Windows environment ensures user-friendliness of the software.

Software reliability is ensured by separation of individual tasks (data acquisition, data processing, etc.) into different processes and the Windows operating system itself.

System flexibility is predetermined by the OLE Automation technology, allowing user to expand the software using his own programs using the aforementioned technology. Moreover, the system can be connected, without necessary modifications, to the user's technology management software for the operation, if the user is running such a program. System modularity is ensured by its biggest advantage, configuration ability. A software user can configure a measurement process, tailored to the local environment of operation, and it takes possible future changes in technologies into consideration.

A measuring system consists of equipment, measuring pollutant concentrations in the measurement points, computer hardware and its software that allows configuration of measurement and processing of measurement results, and other possible processing computers.
A measuring station is a main part of the imission monitoring system. It is used to acquire data from the equipment, change or set the configuration of this equipment, specify processing methods, evaluate measured data, and provide measured data for further processing.

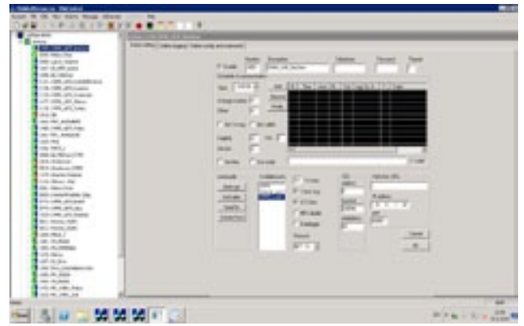
The **Wincentral** is designed for automatic and manual modes of data transfer from the Automatic Imission Monitoring Stations or separate devices equipped with data loggers (EMAM, E-LOG, AuRes).

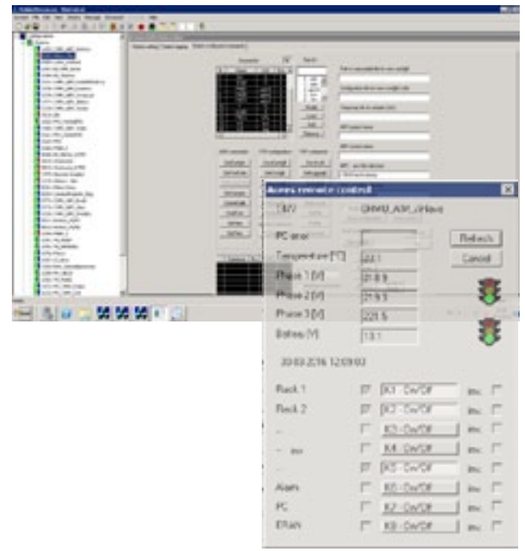
The software was developed in Microsoft Visual C ++ 6.0 and Visual Studio 2010 development environment. The OLE Automation v-2.0 technology was used in the system.

Basic software functions:

The software performs all other introducing functions required by the operator's requirements.
It automatically performs functions at pre-planned time in the configuration.
Moreover, it receives the selected data and messages from the AMS.

- Communication via TCP/IP protocol. Communication with 2 and more stations in the same time
- measured messages from the AMS, 1-hour and 10-minute averages (options 1,3,5,10,15 minute averages)
- Transfer of the calibration protocols from the AMS
- Transfer of the AMS channel configuration
- Loading the configuration into separate data recorders
- AMS current statuse and configuration transfer and display
- Transfer of other optional data from the AMS in a form of files
- Test of connection with the AMS
- Automatic calibration start remote control
- Remote change of the AMS configuration, interchange configuration
- AMS time synchronization
- AMS remote control via AuRes remote control
- Saving selected transferred data into specific databases
- Running communication display
- Display of warning messages





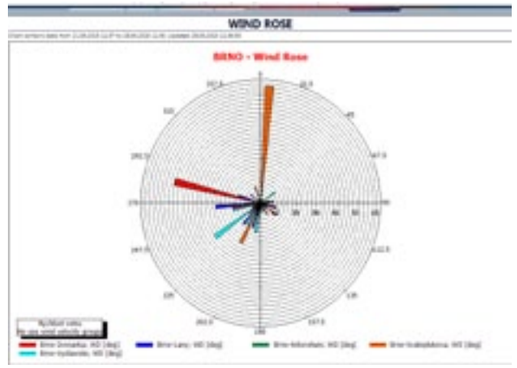
The **Visualis** is a professional tool for data evaluation, visualization, reporting and presentation. This tool can work with data from several databases from both types of monitoring – air quality monitoring and emission monitoring. And also with other data, which can be stored in SQL or ISO databases.

The Visualis provides the following functions through a user-friendly interface:

- Data displaying in a chart, table and wind rose (a mathematical chart, calculating, pollutant speed and concetrations according to a wind direction). Each display type has a lot of display settings to maximize personalization of each project
- Display and evaluation of calibration results (in compliance with the QAL3) in summary charts and tables
- Weekly charts comparing week and weekend days
- Lots of statistical tools for table view, which can be displayed independently in monthly tables (daily averages) and yearly tables (monthly averages)
- Automatic data validation according to different criteria
- Manual data validation according to the user´s calculations
- Marking data with different attributes from monitoring and a possibility to change it during validation
- Calculations enter data into other averages for data outputs in a moving or interval averaging function
- Export of all tables into text (.txt) or MS Excel (.xls, .csv) formats
- Exporting of all charts into picture formats
- Creation of Air Quality Index projects with several statistical functions
- Download of missing data in connection with the WinCentral software
- Display of service protocols by technicians, which they created after visiting the station
- Display of a selectable number of Visualis projects in a single Visualis post
- Automatic updates for all Visualis projects
- Your own mathematical formulas and visualization schemes, projects and data processing can be created by users
- Histograms for wind direction display

With high professional Web applications for displaying Visualis projects on a Web page. The user can get access to emission measured and stored data in databases on WebVisualis application pages. The data is presented in a table or a graphical form according to settings of pre-defined projects. The user can choose the pre-defined project, set a desired data interval and load data into the application. The required data will be processed, evaluated and displayed by the configuration of a selected project.

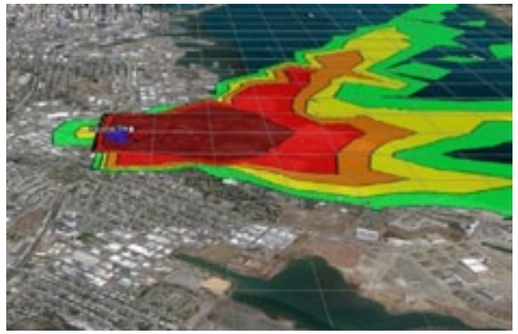
The WebVisualis provides the following functions through a user-friendly Web interface:

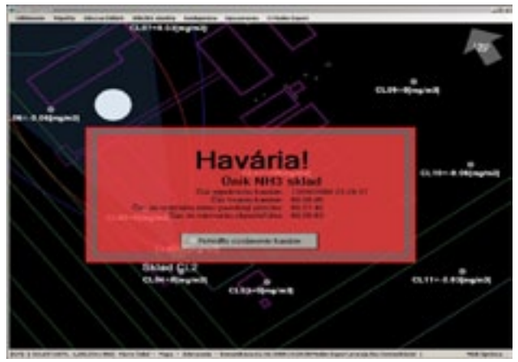


- All projects can only be created in Visualis system
- Data display in chart, table and wind rose (a mathematical chart calculating pollutant speed and concetration according to a wind direction
- Display of all statistical tools, which can be displayed in the Visualis system and which can also be displayed independently in monthly and yearly tables
- Displaying of calibration results in a summary graphs and tables
- Marking data different attributes from both types of monitoring (air quality and emission)
- Exporting all tables into text or MS Excel formats
- Exporting all graphs into pictures formats
- Displaying of Air Quality Index projects, also with possibility to show them on a geographical background or maps with several points with different color (according to specific Air Quality Index at the locality)
- Automatic updates for all projects
- Visualis is needed only for creating projects for WebVisualis, it is not necessary to install Visualis at the computer, where is WebVisualis installed

WinModim Expert

The **WinModim EXPERT** is designed to display, interpret and predict data from real-time hazardous substance leakage monitoring. Its main role is to assist in solving crisis situations in a case of leakage of hazardous substances and provide the operator sufficient information for decision-making in order to protect health and property of citizens. A combination of several mathematical models selected automatically according to predefined criteria is a core of a system. Calculation results are displayed to a digital map supported by vector graphics tools.





Basic features:

- Scanning and evaluation of monitored quantities directly in operation
- Integration of scanned data - analogue inputs and outputs, digital inputs and outputs to the WINImag data concentrator
- Universal configuration of sensors
- Variability of outputs (sirens, traffic lights, blocking devices can be connected) and their universal programming
- Connection of meteorological sensors
- Sending data to ModimExpert and ModimExpert_Terminal higher-level systems (an unlimited quantity) via PC LAN
- Storage of measured data and incidents
- Evaluation of monitored quantities at a higher-level post
- Possible of supervision at terminal posts

The WinImag data concentrator. Data is concentrated in a monitoring system at regular intervals. At those intervals, the WinModim Expert displays detected concentrations, technological parameters and a direction of anticipated leakage flow for the operators to have information about an anticipated threat location. The concentration is evaluated upon every data change, according to pre-defined conditions. Limits for toxicity, technological limits of the operation and meteorological limits are basis for it. Its own criteria are defined for every operation based on which “CAUTION“ and “ACCIDENT“ signals are generated automatically.

Software Summary

WinImag

Real time sensing of values of measured variables and digital status variables (AQMS)

WinEmag

Real time sensing of values of measured variables and digital status variables (CEMS)

WinCentral

Central station - transmission of measured values and statuses from monitoring stations

Visualis

Imaging and processing software over data from imission or emission measurement

WebVisualis

A Web application for displaying of projects from the Visualis Data visualization by a Web browser on a single measuring point or a network of measuring points

WinModim Expert

Gas propagation modeling and display in an industrial environment

ENVIBase

A database of averages of analogue values and calibration protocols

ImiExpsdi

A communication program, communication of the station with the central station

Isogen

A generator of ISO7168 database files, where different databases may be on the input

ENVISQL

A database model for SQL relational databases MS, Oracle, MySQL

PHP ViewImis

A HTML page for display of data from the AIM

ENVIreports

Emission protocols (a part of the WinEmag)

EmiReports

A HTML page for display of emission protocols

HTML View

Web API

A communication program for data acquisition from measurement systems (WinEmag, WinImag) via Web

ENVIWeb

Pages for display of current values and statuses in the EMS

Nrouter

A communication program for transfe of current values between WinImag and WinEmag (a UDP protocol)

FTP com

Application for download and upload of our database files through FTP transmission

SMS sender

Program for automatic sending of SMS messages and e-mails

Communication driver development

According to the customer´s specification

CUSUM reports

Reports created based on calibration results

WinEmag emission package

WinEmag, Visualis, EmiReports, WebVisualis, ENVIWeb,CUSUM reports, WebAPI

WinImag imission package

WinImag, Visualis, WebVisualis

References

The area of Air quality monitoring

CEMS (Continuous Emission Monitoring Systems)

AQMS (Air Quality Monitoring Systems)

Warning and detection monitoring systems

For the years of our operation in the environmental market, we have been involved in estabilishment of national air pollution monitoring networks in the Slovak Republic and the Czech Republic. We have installed an emission measuring system in many industries.

We have built big emergency warning monitoring systems for businesses with follow-on notification of the surrounding population and a pollutant spreading prognosis in order to protect lives and property of the population.

We have delivered stationary and mobile monitoring stations for imission measurement to many customers in Slovakia, Poland, Hungary, Romania, Serbia, Macedonia, Albania, but also to Lithuania, Greece or Libya and Egypt.

Waste dump monitoring systems in development of which we have been involved extensively, have also been installed in Japan and the South Korea.

envitech

www.envitech.sk envitech@envitech.sk +421 32 656 35 11

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