

CORPORATE PRESENTATION · 2026

Process & Environmental Monitoring Solutions

High-performance online monitoring instruments for environmental and industrial applications.

HEADQUARTERS

Budapest, Váci út 16, Faz 12.

FACTORY & R&D

Edelény, Hungary

WEB

www.advanceanalytik.com

Company Overview



Strategic Hub

Headquartered in Budapest, with a state-of-the-art manufacturing facility in Edelény, Hungary.



Market Leadership

Specialized in high-performance online monitoring instruments, serving global environmental and industrial sectors.



Central Europe Advantage

Leveraging the engineering precision and logistical benefits of our Central European location to serve a worldwide clientele.

Core Manufacturing Capabilities



Liquid & Water Analysis

- Viz Pro, Viz Eco & Viz-Classic Dual Channel multi-parameter controllers with plug-and-play digital and analog sensors. Optics 1000 is a Multiparameter Extractive Analyzer can measure up to 08 measurement
- Measures pH, Conductivity, DO, COD, BOD, TSS, Turbidity, Heavy Metals Oil-in-Water, Ammonia, H₂S, Silica, TN, TP & many more...
- For municipal water, wastewater, industrial effluent, pharma, Textile, F&B and petrochemical.



GAZ-CEMS — Emissions

- Complete Continuous Emission Monitoring System for regulatory compliance and process optimization.
- Precision monitoring of SO₂, NO_x, CO, CO₂ and O₂.
- UV DOAS technologies built for harsh stack environments & Process Control stacks in Industries.



Gaz-SPM — Dust Analyser

- Real-time stack dust monitoring via Laser Scattering technology.
- Configurable ranges, fast response and high sensitivity.
- For power, cement, steel, refineries, and incineration, crafted to comply with international regulations.

INNOVATION HUB · EDELÉNY, HUNGARY

Research & Development Facility



In-House Design

End-to-end product development from concept to final assembly.



Rapid Prototyping

Swift iteration and testing for accelerated innovation cycles.



Precision Calibration

Rigorous calibration standards ensuring high accuracy and reliability.



International Compliance

Built to comply with CE, EN 61010-1 and EN 61326 international standards.



STRATEGIC LOCATION

Edelény combines European engineering excellence with strategic logistical access to serve global markets efficiently.

FOCUS AREAS: Water Analytics · CEMS · Particulate Monitoring

ONLINE MULTI-PARAMETER CONTROLLER

Viz-Classic Single & Dual Channel

DUAL-CHANNEL INTELLIGENCE

An advanced intelligent controller supporting up to two channels. The hybrid first channel accepts either analog or digital sensors, while the second connects to digital sensors — measuring pH, ORP, conductivity, dissolved oxygen, turbidity, residual chlorine, COD, and more.

- Hybrid Dual Channel — Supports 1–2 sensors, cutting costs and easing future expansion.
- Built Tough — IP66 protection with power & signal grounding for harsh environments.

KEY PERFORMANCE

Channels Up to 2

Storage 500,000 records

Display 4.3-inch Color

INTERFACE & CONTROL



4.3-inch Screen with Keypad for Quick Mode Switch



Temp Compensation Manual & Auto



IP65 Rated RS485 Modbus



PREMIUM WATER QUALITY CONTROLLERS

VIZ Eco Series



VIZ Eco Single/Dual Controller



VIZ Eco Multi-Channel Controller

TECHNICAL SPECIFICATIONS

Display	7-inch Color Touch (Multi)
Sensor Inputs	Up to 8 Sensors
Output	4–20mA Active
Comms	Modbus RS485 · 4G/NB-IoT

SENSOR COMPATIBILITY

pH/ORP

Conductivity

DO

Turbidity/TSS/NH4

COD/BOD



Smart Connectivity

Modbus RS485 standard, with optional wireless 4G / NB-IoT transmission.



Versatile Mounting

Supports wall, panel, pipe, and pole installation methods.



Data Logging

Integrated SD card slot for 16–32GB of historical data storage.

Technical Specifications

Parameter	Specification
Current Output	Isolated, 2-channel (0/4–20) mA, configurable to measurement ranges; load 750Ω; output accuracy ±0.1%FS.
Communication Output	Isolated RS485 interface; Modbus-RTU protocol
Alarm Output	3-channel SPST (2 alarms + 1 cleaning), NO/NC type; 250VAC, 5A
Alarm Relay Delay	0–9999 seconds, adjustable
Power Supply	AC (85–265)V, 50/60Hz; DC (21.6–26.4)V
Power Consumption	≤28W
Cable Entries	M20×1.5 cable gland
Operating Environment	Temperature (0–60)°C; Humidity 10%–85% (non-condensing)
Storage Environment	Temperature (–15–65)°C; Humidity 5%–95%; Altitude <2000m
Ingress Protection	IP65
Controller Size	151 × 144 × 118 mm (W × H × T)
Weight	0.8 kg
Material	PC + ABS

SENSOR PORTFOLIO

VizSens Water Sensors



pH / ORP

Glass electrode for harsh wastewater environments.

0–14 pH · ± 2000 mV · 0–80°C



EC / TDS

Inductive & contact conductivity for diverse salinity.

0–2000 mS/cm · Salinity · Resistivity



Optical DO

Fluorescence technology — no membrane replacement.

0–20 mg/L · 0–200% Sat · No Drift



Turbidity

ISO 7027 scattered light with auto-cleaning wiper.

0–100 NTU · 0–4000 NTU, · 0–10,000 NTU with Wiper



TSS & Sludge

Suspended solids for activated sludge processes.

0–50 g/L · IR Absorption · Auto-Clean



UV-VIS Probe

Spectral analysis for organic load monitoring.

COD/BOD · TOC/TSS · SAC 254



ISE Sensors

Ion measurement with interference compensation.

NH₄-N · NO₃-N · Fluoride, chloride, Sodium & more



Residual Chlorine

Constant voltage, stable free chlorine measurement.

0–20 mg/L · pH Compensated · Potable

MULTI-PARAMETER EXTRACTIVE ANALYZER – CABINET TYPE

Optics 1000

REAGENTLESS TECHNOLOGY

Dual-beam UV-Vis spectroscopy measures organics and inorganics without chemical reagents — delivering exceptional stability, zero secondary pollution, and lower operating costs.

- Full Spectrum — High-resolution optics covering 180–750 nm range.
- Multi-Parameter — Simultaneously measures any 8 parameters of choice.

TYPICAL MEASUREMENT RANGES

COD/BOD/TOC 0–1000 mg/L

Turbidity 0.1–100 NTU

Nitrate 0–1000 mg/L

INTERFACE & CONTROL



Touch Control
7" Color Screen



Auto-Clean Wiper
Built-in



IP65 Rated
Wall / Panel Mount



PHARMACEUTICAL TOC ANALYSER

AccuPharmTOC-I**UV OXIDATION TECHNOLOGY**

Online and offline TOC analyser with conductivity detection and UV-lamp oxidation — no acid, gas, or catalyst required. Built for purified water, water for injection, and microelectronics water with real-time monitoring.

- Real-Time Monitoring — One-button auto sampling with < 1 minute analysis.
- Compliance Ready — FDA 21 CFR Part 11 with USP, EP, JP & CHP standards.

KEY PERFORMANCE

TOC Range 0–3000 ppb

Detection Limit 1 ppb

Analysis Time <1 min

INTERFACE & COMPLIANCE7-inch Touchscreen
Smart UIModular Design
Easy MaintenanceUSP/EP · CE
Compliance

Technical Specifications

Parameter	Specification
Work Model	Online and offline
Detection Range	0 to 2000 ppb
Detection Limit	1 ppb
Max Tolerance	±5%
Analysis Time	3 min
Response Time	Within 3 min
Sample Temperature	1 – 95 °C
Sample Flow Speed	3 ml/min
Repeatability Tolerance	≤3% F.S
Drifting	±5% F.S
Environment Temperature	10 – 40 °C (change ±5 °C/d)
Relative Humidity	≤85%
Power Supply	AC 220 V, 50/60 Hz (Standard); AC 110 V, 50 Hz (Optional)
Power Consumption	100 W
External Size (L×W×H)	440 × 220 × 405 mm
Net Weight	12.25 kg

ONLINE HIGH TEMPERATURE COMBUSTION TOC & COD ANALYSER

Egetra-TOC & COD 1000

CATALYTIC COMBUSTION TECHNOLOGY

Online TOC analyser using high-temperature combustion oxidation (680°C) with non-dispersive infrared detection. Reagent-free operation eliminates secondary pollution, built for industrial wastewater, chemical processing, and high-concentration carbon monitoring.

- Reagent-Free Operation — No reagents or waste liquid, zero secondary pollution.
- Dynamic Dilution — Auto-adjusts dilution ratio across a wide measurement range.

KEY PERFORMANCE

Range 0–10,000 mg/L

Lower Limit ≤ 5 mg/LCycle ≤ 7 min

INTERFACE & CONTROL

7-inch Touchscreen
DisplaySelf-Diagnostics
Auto PurgeRS-485 · 4–20mA
Modbus

Technical Specifications

Parameter	Specification
Measurement Range	0–10,000 mg/L (up to 50,000 mg/L)
Indicated Value Error	>100 mg/L: $\leq\pm 5\%$; 5–100 mg/L: $\leq\pm 8-10\%$
Lower Limit of Quantification	≤ 5 mg/L
Repeatability	$\leq 5\%$
Low Concentration Drift	Within 5–100 mg/L: ≤ 1 mg/L
High Concentration Drift	$\leq 5\%$
Resolution	0.1 mg/L
Display	7-inch touchscreen
Measurement Mode	Continuous, cyclic, fixed-point, controlled & manual
Measurement Cycle	≤ 7 minutes
Calibration Mode	Manual & automatic calibration
Maintenance Cycle	Generally once a month
Power Supply	220V \pm 22V, 50Hz or DC24V
Output	4–20mA
Communication Method	MODBUS RS-485
Combustion Temperature	680°C

PRECISION LASER SCATTERING MONITOR

GAZ-SPM Dust Analyser



Rugged Full-Metal Design

Range 0 – 1000 mg/m³

Accuracy ± 2% F.S.

Response Time < 10 sec

Flue Diameter 0.2 – 20 m



Laser Scattering

High-sensitivity optical detection for accurate emission reporting.



Fast Response

Real-time output in under 10 seconds for continuous monitoring.



Rugged Housing

IP65-rated full-metal shell withstands dust, vibration, and extremes.



Low Maintenance

Purge system keeps optics clean — minimal field service required.

CORE SYSTEM FEATURES

Gaz-SPM Dust Analyser — Technical Overview



Real-Time Monitoring

24/7 continuous tracking of smoke and dust emissions from pollution sources.



Next-Gen Technology

Advanced laser-scattering optical measurement for precise concentration analysis.



Industrial Resilience

IP65-rated full metal shell withstands wind, rain, lightning, and extreme temperatures (0 to +60°C).



Stability & Intelligence

Stable data with minimal drift, plus built-in self-diagnostics for error-free operation.

Technical Specifications

Category	Specifications
Measurement Range	(0-60, 100, 500, 1000) mg/m ³
Response Time	< 10 seconds
Drift (Zero/Span)	Pm2%FS over 24 hours
Outputs	Analog: 4-20~mA & Digital RS 485 Modbus
Physical Attributes	Weight: 3 kg
Flue Diameter	Suitable for diameters from 0.2 m to 20 m

Seamless Connectivity

CEMS-compatible integration (EN, DIN & EPA standards).

Data Accessibility

Remote monitoring and real-time data transmission.

Regulatory Alignment

Cement, Steel, Thermal Power & Petrochemical compliance.

ONLINE GAS ANALYSER FOR INDUSTRIAL PROCESS CONTROL

Gaz-CEMS



Measuring Technology

UV-DOAS (SO₂, NO_x, CO, CO₂) + Zirconia (O₂)

Gases Measured

SO₂, NO, NO₂, CO, CO₂, O₂

Sample Gas Temperature

Maintained above 180°C throughout sampling path

TARGET INDUSTRIES

Power Plants

Cement Kilns

Steel Mills

✓ EN 15267 · EN 14181 · QAL-1 COMPLIANT
(Certificación is under process)



Low Interference

UV-DOAS minimizes cross-interference from water vapour and dust.



High Reliability

No moving optical parts ensures exceptional long-term stability.



Automated Operation

Automatic back-flushing and calibration for minimal maintenance.

KEY PRODUCT FEATURES

Gaz-CEMS — Advanced Online Gas Analysis



Superior UV DOAS Technology

UV Differential Absorption Spectroscopy minimizes cross-interference from dust, moisture, and background gases.



Multi-Gas Monitoring

Measures SO₂, NO_x, CO, CO₂, and O₂ simultaneously in a single integrated unit.



Fully Automated Operation

Intelligent control unit handles sampling, testing, calibration, and fault diagnostics automatically.



Low Maintenance Design

User-friendly touch screen and long-life optical components reduce total cost of ownership.

Technical Specifications

Category	Specifications
Measurement Technology	UV-DOAS (Gases) & Zirconia For (O ₂ Measurement)
Components & Range	SO ₂ , NO _X , CO, CO ₂ (0-1000 ppm) O ₂ (0-25%)
Response Time	< 60 seconds
Accuracy & Stability	Linear Error: < 1% F.S. 24h Drift: <2 F.S.
Operating Temp	-15C to 55C
Flue Diameter	1.5 { L/min} pm 0.2 { L/min}

Compliant with EN 15267-3 / QAL-1 emission-monitoring standards.

Strategic Integration & Certification

Integration & Reliability

- **Reliability**
Engineered specifically for gases laden with dust, moisture, and tar.
- **Connectivity**
Seamless integration with centralized control systems for real-time data.
- **European Quality**
Proudly Made in Hungary, meeting high EU manufacturing and environmental standards.

QAL-1 Certification — In Progress

- **Certification Underway**
Gaz-CEMS and Gaz-SPM are currently undergoing QAL-1 suitability testing per EN 15267-3.
- **Regulatory Acceptance**
Engineered to meet the minimum uncertainty requirements set by environmental agencies.
- **Field Stability**
Passed rigorous lab and field tests for temperature, vibration, and cross-sensitivity.
- **Investment Security**
On certification, supports your plant in passing the required QAL-2 and AST audits.

GAZ-CEMS · THREE VIEWS

Gaz-CEMS

Online Gas Analyzer for Industrial Process Control



FRONT DOOR CLOSED VIEW



FRONT DOOR OPEN VIEW



REAR VIEW

CONTACT US

Let's Connect!

Ready to elevate your monitoring solutions? Reach out to our experts for customized analytical instruments.



CALL US

+36 70 328 6862



EMAIL

sales@advanceanalytik.com



WEBSITE

www.advanceanalytik.com