

# Choose the EAsy Way compEAct

Elemental Analysis



## compEAct Series

Refineries, QC and contract labs are asking for a new generation of elemental analyzers. Analyzers that can be operated by almost anyone, yet delivering quality results in the shortest possible time, with high ease of use and low maintenance.

It can be done! The compEAct series offers the smallest footprint of the market along with proven Analytik Jena technology for high-throughput determination of sulfur and nitrogen. Its uncompromising analytical performance comes with a completely new design and operating concept. The integrated touch screen makes it the first stand-alone system of its class.

### Your Benefits:

- **EAsy Fit**  
Intelligent design for efficient operation in the smallest of spaces
- **EAsy Touch**  
Integrated control and data evaluation unit with intuitive touch operation
- **EAsy Protect**  
Maximum protection through automatic monitoring and optimization of all process parameters
- **HiPerSens® detection**  
Broadest measurement range without sample pretreatment for unique applicability

### compEAct N

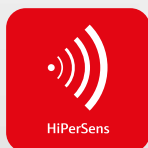
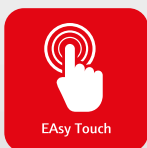
Elemental analyzer for total nitrogen (TN) determination

### compEAct S

Elemental analyzer for total sulfur (TS) determination

### compEAct S<sup>MPO</sup>

Elemental analyzer for interference-free sulfur (TS) determination in fuels and other refinery samples



# compEAct

Choose the EAsy Way



## Simply Yours

compEAct is the ULTIMATE analyzer for demanding high-throughput applications. Precise results, high ease of use and low maintenance make it the perfect partner for contract and QC laboratories in the industry and research institutions.

### High-performance concentrated in the smallest spaces

The compEAct features a small footprint combined with an interactive operating concept. Using an integrated, powerful computer and a touch screen for operation and data evaluation, it is the first stand-alone elemental analyzer in the world.

The highly responsive, high-contrast touch screen is almost angle-independent and easily operated with gloves. Nano-coating ensures a high resistance to chemicals and mechanical stress.

A direct LAN connection allows remote access, e.g. from an on-site control room or via mobile phone, and easy integration into existing LIMS.

Like its "big brother", the famous multi EA® 5000 the compEAct combines efficient, catalyst-free high-temperature combustion with highly sensitive HiPerSens® detection. EAsy Protect – an intelligent system of various safety and protection mechanisms – guarantees maximum operational reliability and equipment performance. compEAct is small, but doesn't compromise on performance.



# Simply Better – Why a compEAct Belongs in Every Lab

01

## Productivity and performance

- Ideal for unattended operation around the clock
- Flexible automation and short analysis times for high sample throughput
- High precision, ultra-low detection limits, broad linear operation range
- Low maintenance, short warm-up for less downtime
- Automated workflows including gas shut-off, standby, wake-up, can be optimized to the daily demand

02

## Resource-saving and cost-effective

- Smallest ever footprint – including autosampler and control unit
- Integrated PC with interactive touch screen and LAN/LIMS capabilities
- High ease of use, low costs and low maintenance

03

## Application flexibility and standard compliance

- Analysis of compressed and liquefied pressurized gases, e.g. LPG, NPG, and hydrocarbons such as butane, propane, propylene or methane
- Analysis of liquids, e.g. naphtha, fuels such as gasoline, diesel, biodiesel, bioethanol or kerosene, aliphatic, cyclic and aromatic hydrocarbons, alcohols or organic acids
- Sulfur – ASTM D: 5453, 6667, 7183, 7551; IP 490; EN 15486; EN ISO 20846
- Nitrogen – ASTM D: 4629, 7184; IP 379/88; DIN 51444; UOP: 936, 971
- Implemented library of standard-compliant analysis methods and default reporting
- Quality assurance through integrated AQA and legal limit verifying functions

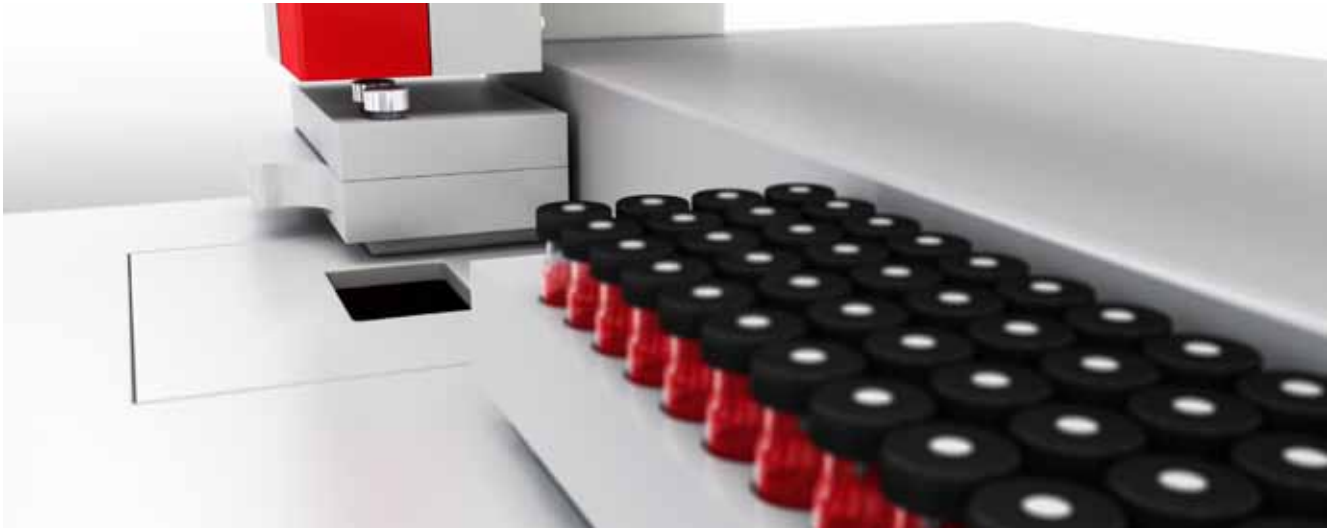
04

## Safety and comfort

- Easy to use with interactive and user-friendly software interface
- Automatic safety check, alarm function, and safety shutdown
- Robust hardware with few, easily accessible components
- LAN connection for LIMS integration and remote access
- Online service support

## Simply Efficient

Cost effectiveness is now one of the most important criteria when buying analyzers. The limits of analytical feasibility have long since been reached. Today, footprint, manpower, and increased productivity are decisive factors.



### **Efficient and compact**

Contrary to other single element analyzers controlled from an external PC, the compEAct combines all relevant system components, including a control and evaluation unit and touch screen in a single module. And thereby actually saves space – 60 % compared with other vertical systems.

### **Short measurement times and high throughput**

Thanks to the application-specific design of the hardware and software, the compEAct features short analysis times and an impressive sample throughput. The time-consuming development and optimization of methods are a thing of the past; today, proven standard methods and calibration sequences ensure convenient operation. Full compliance with all relevant regulations is guaranteed.

### **Low-effort monitoring and maintenance**

The compEAct creates the prerequisites for safe unattended operation. The intelligent Self Check System monitors and optimizes all relevant parameters in real time. Malfunctions and incorrect measurements are effectively prevented; the service life of all components is maximized. The operator can perform other tasks during the analysis. Should “action” be required, the system notifies the operator with a message, e.g. on the smartphone. This saves valuable capacities and ensures low downtime and a constant sample throughput.

A maintenance assistant promptly notifies users of upcoming maintenance requirements, keeping time and costs to a minimum.

## Simply Intuitive

The EEvolution software of the compEAct sets standards in simplicity and functionality. Tailored to the high demands of fully-automated and digitized laboratories, it easily guides users in their daily routine, regardless of prior knowledge and experience.



### In a nutshell

An elemental analyzer as easy to use as a smartphone – with compEAct this dream becomes reality. With the look of a simple smartphone app, EEvolution provides full access to all the important functions of a device software at the tip of your finger. A pictogram-based interface, flat substructures and a Quick Access sidebar allow easy navigation between menu items.

compEAct was developed hand in hand with users avoiding unnecessary complexity. Measurement processes and results are presented clearly. Flexible data export, customized reporting and excellent data integrity are a matter of course. Method libraries as well as calibration sequences compliant with ASTM, ISO, UOP and IP are indispensable features. An elaborate Self Check System keeps the need for intervention by the operator to a bare minimum.

### EEvolution – Your Benefits

- Intuitive operation using gesture control and Quick Access sidebar
- Customized reports and data export
- Integrated method library
- Full standard compliance (ASTM, DIN, ISO, IP, etc.)
- Maintenance assistant, messaging, service module
- Automatic data backup and LIMS connectivity
- A LAN port allows external control and data evaluation, and online support

#### Headquarters

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Pictures: Analytik Jena AG  
Subjects to changes in design and scope of delivery as well as further technical development!