1 Instrument – 5 Technologies – 100+ Parameters

EZ Series Online Analysers for industrial and environmental water analysis

Colorimetric Analyser

ISE Analyser

Titrator

Voltammetric Trace Metal Analyser

Chemiluminescence Analyser

The Hach® EZ Series covers a unique range of parameters on a single analyser platform. Five measurement technologies (colorimetry, titration, ion-selective electrode, voltammetry, and chemiluminescence) allow for a wide selection of measuring ranges and applications.

All instruments come in the same rugged mainframe with a compact footprint. Their common user interface on industrial panel PCs is easy to use and keeps training efforts low. Administrator access and activated/deactivated menu keys provide security. Various analog and digital communication outputs support easy integration into your systems. Discontinuous analysis at programmable intervals assures low reagent consumption and eliminates cross-contamination.

EZ Series analysers share wear and spare parts thus requesting less inventory. Similar maintenance steps again bring down training efforts. Optional Hach service agreements protect your investment and help ensure compliance.

HACH®
Be Right™

The EZ Series Periodic Table of Elements

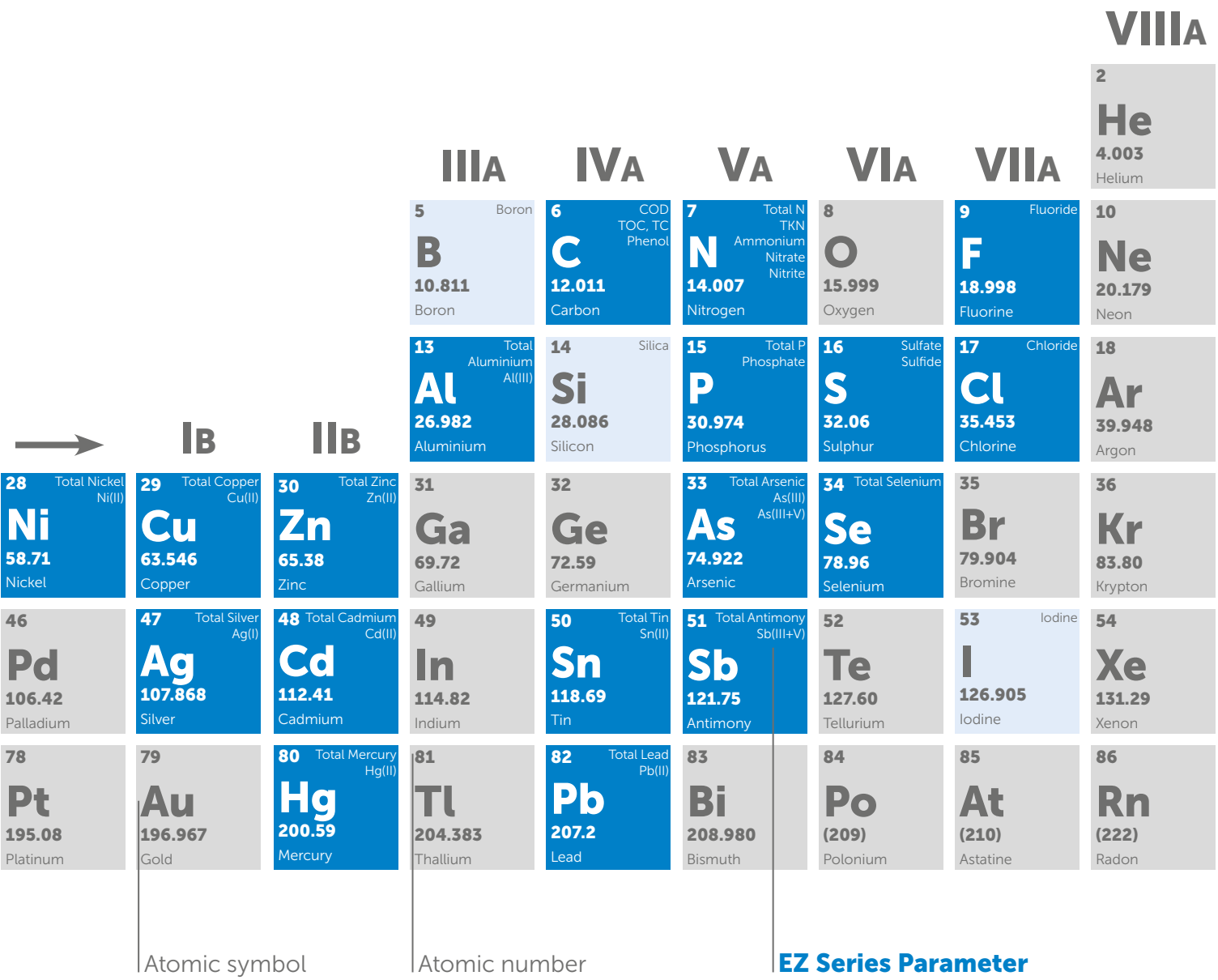
IA	IIA	IIIB	IVB	VB	VIB	VIIB	←	VIIIB
1 pH **H** 1.0079 Hydrogen								
3 **Li** 6.941 Lithium	4 **Be** 9.012 Beryllium							
11 Sodium **Na** 22.9898 Sodium	12 Magnesium Water hardness **Mg** 24.305 Magnesium							
19 Potassium **K** 39.102 Potassium	20 Calcium hardness Alkalinity **Ca** 40.08 Calcium	21 **Sc** 44.956 Scandium	22 **Ti** 47.88 Titanium	23 **V** 50.942 Vanadium	24 Total Chromium Cr(VI) **Cr** 51.996 Chromium	25 Total Manganese Mn(II) **Mn** 54.938 Manganese	26 Total Iron Fe(II) Fe(III) Fe(II+III) **Fe** 55.847 Iron	27 **Co** 58.933 Cobalt
37 **Rb** 85.4678 Rubidium	38 **Sr** 87.6 Strontium	39 **Y** 88.906 Yttrium	40 **Zr** 91.22 Zirconium	41 **Nb** 92.906 Niobium	42 Molybdenum **Mo** 95.94 Molybdenum	43 **Tc** (98) Technetium	44 **Ru** 101.07 Ruthenium	45 **Rh** 102.906 Rhodium
55 **Cs** 132.9054 Caesium	56 **Ba** 137.33 Barium	57 **La** 138.906 Lanthanum	72 **Hf** 178.49 Hafnium	73 **Ta** 180.948 Tantalum	74 **W** 183.85 Tungsten	75 **Re** 186.207 Rhenium	76 **Os** 190.2 Osmium	77 **Ir** 192.22 Iridium
87 **Fr** (223) Francium	88 **Ra** 226.025 Radium	89 **Ac** 227.028 Actinium						

Element name

Relative atomic mass

Additional parameters

Microbial Load / ATP	**Cyanide** **Total Cyanide**	**Volatile Fatty Acids (VFA)** **FOS/TAC**	**Chlorine, free** **Chlorine, total**	**Hydrogen Per**
Toxicity	**Thiocyanate SCN^-**	**Urea**	**Formaldehyde**	**Glucose**
Potassium hydroxide	**Sodium hydroxide** **Sodium bisulfite**	**Sulphur dioxide**	**TMAH (Tetramethyl-ammonium hydroxide)**	**Color** **Color Aurubis**
Available on www.hach.com	Available on request			



roxide H_2O_2	Hydrazine N_2H_4	DEHA (Diethylhydroxylamine)	Anionic charge Kationic charge Charge density	Thorium
	Acidity, free Acidity, total	Hydrofluoric Acid	Acetic Acid Lactic Acid Oxalic Acid	Hydrochloric Acid Phosphoric Acid Sulfuric Acid
s				

HACH®

Be Right™

Complete solutions for the complete water cycle

Risk mitigation, compliance, safety and instrument uptime: these are common requirements in water management, independent of the application. The EZ Series Analysers provide a solution for continuously monitoring parameters that are critical to these concerns.

Application examples

- Monitoring of microbial ATP as the common denominator in bacterial and pathogen contamination, e.g. for prevention of biofouling in RO membranes
- Controlling of primary disinfection and disinfection by-products (DBPs)
- Detection of trace metals in source water, the distribution network or in your wastewater effluent post chemical precipitation and clarification
- Cost-effective determination of organic carbon in surface water intake
- Monitoring of corrosion, scaling and fouling indicators in your feed water
- Controlling of process efficiency and critical process parameters in anaerobic digestion
- Detection of acute and chronic toxicity in wastewater streams to protect your vulnerable microorganisms

EZ Series Overview

Thanks to the versatile instrument platform in many cases it will be possible to match the online analysis to the method you are using in your laboratory.

- EZ1000 Series: colorimetric analysers
- EZ2000 Series: colorimetric analysers with digestion
- EZ3000 Series: ion-selective analysers
- EZ3500 Series: ion-selective analysers with standard addition for complex matrices
- EZ4000 Series: single parameter titrators
- EZ5000 Series: multi parameter titrators
- EZ6000 Series: voltammetric trace metal analysers
- EZ7000 Series: dedicated analysers, e.g. for COD, TOC or Total Nitrogen + Total Phosphorus

Sample Preconditioning

EZ Series Analysers can be combined with sample preconditioning units for external dilution or filtration to meet the requirements of the individual application. All systems are designed for fully automatic operation and require virtually no human intervention.

The self-cleaning EZ9000 Series filtration systems are either equipped with a blow-back action by instrument air or a specific cleaning cycle to prevent the filter element, the sample tubing and the analyzer from blocking and blinding. This design principle allows for trouble-free sampling and contributes to high up-times.

Service Partnership

Hach provides on-site and in-factory repair, preventative maintenance, and calibration programs for your instruments to ensure reliability and instrument up-time. We have services to fit your specific needs.

DOC063.52.30463.Aug18