



advantages at a glance

Precise

- High measurement accuracy thanks to the large-area Silicon-Drift Detector (SDD) and the high-performance Multi-Channel Analyzer for precise element analysis down to the ppm-detection level

Fast

- Results within a few seconds thanks to multi-core processing unit and dynamic real-time analysis
- Built-in calibration

Solid

- Rugged instrument casing, encapsulated detection unit
- Sturdy metal components
- Reliable in heavy-duty industrial environments

Safe

- Mechanical shutter
- Ergonomic handling
- Measurement is initiated by pressing two green buttons
- Comfortable activation using PIN code
- Multi-color LED operation status display
- Acoustic feedback

Versatile

- Automatic recognition of elements by the dynamic multi-element analysis for steel, copper, precious, aluminum and heavy metals.
- Upgradeable with additional measurement programs and apps
- Measurement aperture available in different sizes
- USB port for transferring measurement data to a PC



Period	Gruppe	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1		H	He																
2		Li	Be	B	C	N	O	F	Ne										
3		Na	Mg	Al	Si	P	S	Cl	Ar										
4		K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
5		Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
6		Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
7		Fr	Ra	Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr	

ElementCheck determines elements with atomic numbers of 11 (Na) or higher. The measurement method unveils its full strength for the elements contained in ferrous alloys, heavy metals and precious metals.



Easy handling: Just position the device at the sample and press the green buttons. Within seconds you will receive the information. Material analysis can be this simple!



device specifications

Measurement method	Energy-dispersive X-ray fluorescence spectroscopy (XRF)
Detector	Thermoelectrically-cooled large-area Silicon-Drift Detector (SDD)
X-ray tube	10 – 40 keV, 4 W, Ag-Anode, encapsulated; other anode materials on request
Aperture	Standard aperture Ø6 mm, smaller sizes available upon request; automatic detector protection by mechanical shutter
Analytes	Dynamic multi-element analysis for elements starting sodium (Z=11), customer-specific measurement programs and material databases on request; easy upload of new program modules
Calibration	Automated by internal reference materials
Display	High-contrast, wide-angle, high-resolution color display 320 x 240 pixel; multicolor LEDs for operational status indication
Power supply	Built-in rechargeable Li-Ion battery, battery status displayed, universal AC charger 100 – 240 V AC, 47 – 63 Hz, charging during operation possible
Interface	Mini-USB 2.0 port for data transfer
PC-Software	ElementCheck Connect: simple analysis, reporting, documentation and archiving of measurement results; printing of measurement protocols; creation of measurement programs; firmware updates
Dimensions/weight	220 x 230 x 80 mm (length x width x depth) / 1750 grams (including battery)
Contents	Measurement device, AC charger, USB cable, manual, PC software, carrying case