

- Top detection performance with 4-quadrant technology
- Intuitive control and easy installation with autocalibration and Teach Assistant
- User-friendliness: illuminated 5.4 inch colour display, simple menu navigation and clearly arranged graphics
- Reporting according to IFS5 and HACCP standard
- Enclosure solution tailored to the requirements of the food industry: roof angled forwards by 30°, seal dyed blue to clearly distinguish it from foodstuff, prepared for wall mounting, protection category IP66/NEMA 4X

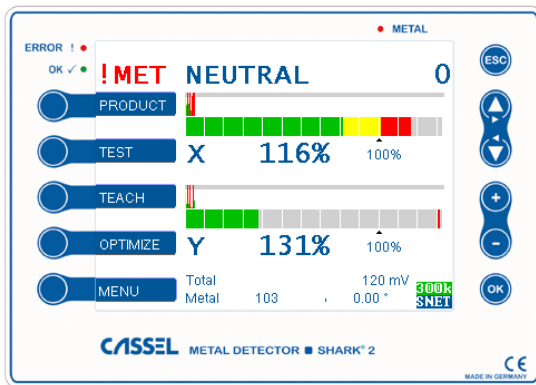


- Maximum detection performance with highest reliability in the entire detection area due to 4-quadrant technology
- Simple setup with Teach-Assistant
- Storage spaces for up to 250 products
- Easy to use with intuitive and multilingual menus
- 4-level password system, automatic logout after time lapse
- Documentation of all events and metal messages
- IFS5 and HACCP reports available on the display at the touch of a button
- Optional: Data transfer to USB interface or connection to the company network via SHARKNET® software
- Cyclical function monitoring with Performance Validation System (PVS)

Function:

The METAL SHARK® 2A control unit is used for all CASSEL METAL SHARK® metal detectors. It can be mounted directly on the detector/sensor or remotely on a wall.

A 5.4 inch colour display provides access to all important functions: Product list, test function, teach-in, optimization, menu. The clear layout and easy-to-understand instructions in several languages make it particularly easy to teach the device to different products and to monitor production later on.



Metal alarm with minimum deflection in the 4-quadrant display.

Scope of delivery:

- Control unit METAL SHARK 2
- Stainless steel housing in special "Hygienic Design", mounting on detector or wall possible

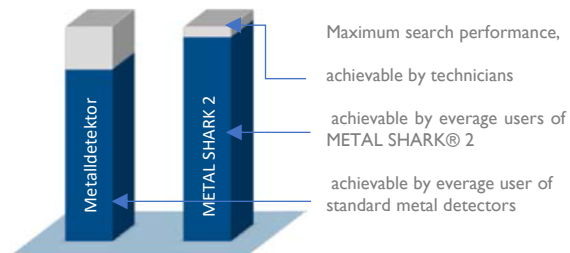
Compatibility:

The SHARK 2A unit can be combined with the following sensor heads:

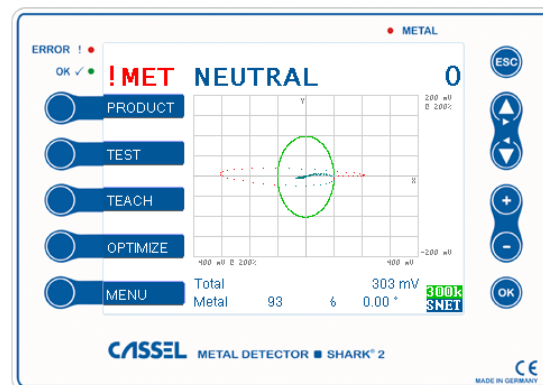
- METAL SHARK® BD
- METAL SHARK® GF
- METAL SHARK® TU
- METAL SHARK® IN Liquid
- METAL SHARK® R
- METAL SHARK® FL

Details:

- 5.4 inch color display (illuminated)
- Teach-Assistant enables even inexperienced users to teach in products.



- Help texts (text marked yellow) lead the user through the menu and to the desired settings.
- Histograms and diagrams show the signals of products and metal alerts having occurred in the last hours. Hereby one can set up the metal detector even more precisely.
- The Four-Quadrant-Technology adjusts the metal detector to the product like a tailor a new suit to the body of his customer. This way it detects smallest metal pieces even in difficult products like fish, meat and cheese.



Metal alarm with minimum deflection in the 4-quadrant display.

- Product List – A list shows all taught-in products. This way the user can quickly switch between different products.
- Cyclical function monitoring with Performance Validation System reminds of required function tests and directly displays test piece sizes to be tested.
- SHARKNET connection for automatic documentation according to HACCP, IFS or BRC standard

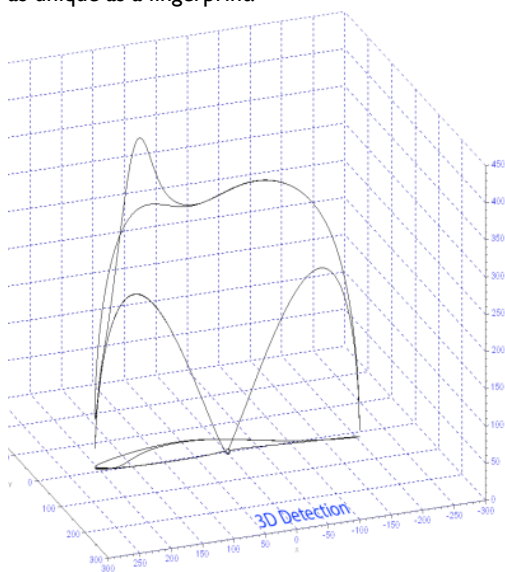
Specifications:

Electronics	digital signal processor, noise filter, digital balance control, digital frequency control, PowerDrive circuit, suitable for multifrequency sensors
Input Signal	8 freely configurable 24 V DC signals, e.g. for reject confirmation
Output Signal	2 potential-free: "Error" and "Metal" 8 freely configurable 24 V DC signals, e.g. for optic/acoustic alarm
Measuring Method	inductive, multi channel operation, balanced receiver coils
Metal Detection	ferrous, non-ferrous (e.g. aluminium or copper) und stainless steel
Product Compensation	250 storage spaces, automatic product compensation with Teach-Assistant
Protection Category	IP 66/NEMA 4X
Ambience	-10° C up to +40° C, rel. humidity 30% up to 80% (non-condensing)
Product Temperature	--- (only relevant for the sensor head, control unit is not affected)
Power Supply	one phase I 10-240 VAC, 50/60 Hz, typ. consumption 20 W (max. 60 W)
Interface	RS232, provides documentation according to HACCP- and IFS-standard, USB- or ethernet option
Maintenance	maintenance-free, selfcalibrating sensors
Diagnosis	integrated diagnostic software, automatic self-test
Housing	100% stainless steel, 1.4301 (AISI304), roof angled forwards by 30°, seal dyed blue to clearly distinguish it from foodstuffs, prepared for wall mounting
WxHxD (mm)	390 x 430 x 210

3D Detection:

(with METAL SHARK® BD sensor head)

All SHARK® 2A control units are prepared for 3D detection. The established 4-quadrant technology is supplemented by multi-phase measuring and signal amplification factors of the MultiPhase and BOOST FACTOR technologies: These generate 3-dimensional signal models of the signatures of your products - as unique as a fingerprint.



BOOST FACTOR: up to 50% more accuracy -
The METAL SHARK® with 3D detection detects stainless steel up to 1 mm smaller than conventional detectors, especially at the difficult leading and trailing edges of the packages.

MultiPhase: Continuous adaptation to changing conditions for even more stability

The METAL SHARK® with 3D detection can handle frozen or heated products, changing product orientations or temperatures as well as cooled, heated or humid environments without any problems.

For this function an additional light barrier in front of the sensor is required.

Cleaning of SHARK® 2A Hygienic Design:

The METAL SHARK 2A control unit with "Hygienic Design" enclosure can be cleaned with the following tested cleaning and disinfection materials:

Ecolab	7 P3-topax 12 7 P3-topax 19 7 P3-topax 56 7 P3-topax 99
FINK TEC	7 10030 FINK-FC 30 (disinfecting alkaline foam cleaner) 7 17037 FT 37 SR (highly-alkaline foam cleaner) 7 18001 FINK RHE super with foam (highly-alkaline smoke resin solvent) 7 17310 ÖKORON 10 (acidic disinfectant) 7 17313 ÖKORON 13 (acidic disinfectant) 7 18801 FINK aluminium cleaner with foam (acidic foam cleaner) 7 18809 FINK phosphoric acid foam cleaner
JohnsonDiversey	7 Superfoam VF3 (alkaline foam) 7 Powergel VG1 (alkaline gel with high solvent and tenside content) 7 Acifoam VF10 (phosphoric acid foam) 7 Divosan Activ VT5 (peracetic acid disinfectant) 7 Divodes FG VT29



CASSEL Quality Promise:

As a manufacturer, CASSEL is committed to the highest quality standards. For more than ten years, our aim has been to ensure the quality of your products. Our reputation has been built by protecting your reputation. We supply to customers in various industries worldwide, such as food, plastics, pharmaceuticals, textiles, wood and mining. Our headquarters and state-of-the-art manufacturing facility are located near Hanover in the heart of Germany. Each year we produce and supply over 1000 metal detection systems. About 80% of our production goes to the export market. To ensure that you receive the best possible service and support wherever you use our metal detectors, we have a worldwide network of partner agencies.

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