

Multiscan Metal Detector

Model: Sentinel 5000 Series

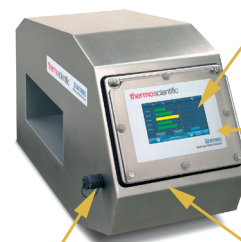
The Thermo Scientific™ Sentinel™ Multiscan Metal Detector utilizes innovative new technology to scan combination of up to five selectable frequencies to overcome the limitation of fixed single or dual frequency metal detectors that can miss metal contaminants hidden in product signals. It's like having five metal detectors in one.

FEATURES

SENTINEL 5000 SERIES

- multiscan technology scans a combination of up to five user selectable frequencies from 50 to 1000 kHz. This enables users to identify contaminants that are to 70 percent smaller in volume than previous technologies.
- 7 in easy-to-use, high intensity colour touchscreen with set-up wizards to reduce set-up time
- detailed graphical displays for phase, rejects, quality test, and detection thresholds to enable easy fine tuning and troubleshooting DSP technology and digital signal filter
- IP69K for severe wash-down and dust, eliminating repair costs
- all electronics are integral, so mounting is easy and flexible
- wide ambient temperature range assuring reliability. All balance functions are implemented in software
- built-in USB port to transfer production data, you can even view it in PDF form right on the Sentinel Screen
- separated DSP module and control unit
- large aperture range, width: 75 to 2000 mm, height: 75 to 600 mm*

**Not all combinations are possible, please contact Wedderburn for more details*



Colour touch screen

A high-intensity washdown colour touch screen combined with easy to use software reduces training and operation time.

Protective cover for touch screen

To protect from accidental damage-an optional polycarbonate flip-up cover is available.

Built-in USB port

Save/restore programmes, off-load statistics and update software with a memory stick.

Integral power supply and I/O

Unlike other metal detectors, there are no separate boxes to wire in and mount. All power and I/O functions are self contained, making mounting faster and more flexible.



Specifications may change without notice

▲ **Packaging Equipment.**

*Labels. Labelling Equipment. Packaging Equipment. Weighing Scales.
POS Systems. Food Equipment. Maintenance & Repairs. Hire.*

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METAL DETECTION SPECIFICATIONS

Frequency range	50 to 1000kHz, Multiscan runs up to five frequencies
Sensitivity	detects contaminants up to 70% smaller in volume than APEX 500 (subject to application testing)
Foot pattern and aperture placement	same as APEX 500 Metal Detector for easy upgrade
Aperture sizes*	various aperture sizes available, width: 75 to 2000mm, Height: 75 to 600 mm, Increments of 25 to 200mm and 50 above 200mm
Construction	stainless steel 304 straight line finished case and front panel, HD option utilizes 316 stainless steel. Optional three aperture liner styles for harsh washdown and high temperature applications.
Metal free zone	aperture liner styles for harsh washdown and high temperature applications
Human machine interface	7 in (178 mm) diagonal, high-intensity colour touch screen
Product speed	0.5m/min (1.7ft/min) to 80m/min (262 ft/min). Encoder input highly recommended.
Output types	8 relay outputs; 25v AC, 2amp max. 50 volt DC 1 amp max 8 digital sourcing (PNP) outputs, 24v DC with capacity of any two at 500mA, the rest at 30 mA average each
Input types	8 inputs; active 24v DC switch selectable as NPN or PNP
Input allocation (software selectable)	speed sensor, infeed photo eye, reject confirmation 1 and bin full, external alarm, external reset
Help-text language	English

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ENVIRONMENTAL, ELECTRICAL AND OPERATIONAL SPECIFICATIONS

Metal detector ambient temperature	-10° to + 40°C (+14° to 104°F)
Product temperature in aperture	-10° to +55°C (+14° to +131°F), HD option maximum 40°C (104°F), PVDF option max 120°C (248°F)
Max washdown temperature	55°C (131°F), HD option 65°C, PVDF liner option cannot be washed down (dry applications only)
Relative humidity	20% to 80% non-condensing, one way breather valve standard
Electrical requirements	100v to 240v AC single phase, 50Hz to 60Hz, 0.6 to 1.2amps
USB port	watertight USB 2.0

CONFORMANCE TESTS AND CERTIFICATIONS

Protection ratings	IP69, HD option includes thermal shock protection
Export and safety	cCSAus, CE
Manufacturing quality	ISO9001 certified

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