

### 3500 Series

#### Metal Detectors



#### Accuracy and reliability

Metal detector 3500 Series meets the most demanding standards of the world's leading manufacturers and trade chains thanks to its high accuracy and reliability.

- Multiples frequencies to be selected: To choose the optimum operating frequency for every product; highest sensitivity for stainless steel and no ferromagnetic metals (copper, brass, plumb, aluminum, etc).
- Product tracking: allows automatic matching of product compensation in case of slow changes of the product characteristics (formula, moisture, temperature, ...)
- Auto learning system: for a quick product set up according with an optimum sensitivity and noise immunity.
- Digital filters: for noise suppression; guarantee reliability in detection of metal contamination even with products with high electrical conductivity.
- Quality Assurance in conformance with HACCP/IFS\*: automatic validation system, system log book and report and statistics generator.

\*(Hazard Analysis and Critical Control Points / International Food Standard).

### Easy Operation

To make easy the system operation, all the important data setting, and function displays are visible at a glance on the LCD graphic display, which also provides a comfortable menu guidance and soft keys, context sensitive.

- Multi product memory: stores up to 47 products with its settings and allows quick and easy product change.
- Auto learning system: automates product dependent system setting and compensates 'product effect', even in case of difficult products (cheese, meat, bread, ...).
- Complete control unit: data, parameters and main function are visible at a glance on the LCD graphic display, which also provides a comfortable menu system.
- Membrane keypad with 5 function keys and 8 operation keys.
- 8 lines LCD graphic display.
- Operator guided menu, 4 languages selectable.
- 5 level password protection.
- Information on operation display:  
Product, batch, memory number, equipment number, metal detection, relay activation, ...

### Easy maintenance

- Open frame design:  
The open frame construction made of stainless steel allows an easy cleaning of the equipment. The type of protection IP65 in the tunnel guarantee a mechanical reliability, even in sturdy environments.
- Auto monitoring system:  
Continuously monitors critical and no critical system functions.
- Remote processing monitoring:  
Through the serial port communication (optional).

### Communication and integration

Metal detector 3500 Series provide many communication options to integrate them with computers, and other process machinery, allowing an easy integration in process lines.

- 1 serial Port RS-232/422.
- 9 Digital Input:  
1 reset 'metal', 4 light barrier, and 4 for belt and air compress management.

- 5 Digital Output:  
2 relays for “metal”, 1 relays for “fail” and 2 for indications.
- Metal detector 3500 series can be easily integrated with Dibal weighing and labelling systems:
  - Automatic weighing and labelling system.
  - Check weighers.
  - Grade weighers.

### Complete range of accessories

The 3500 Series feature many optional accessories to be adapted to the specific needs of every installation:

- Visual and acoustic beacon for metal detection and errors.
- Product guides.
- Lockable rollers.
- Different rejecting devices air blast, pusher, swing arm, ...
- Set off control unit.
- Portable printer.

### One equipment for every need

The Dibal range of metal detectors includes more than 200 sizes of coils, which allows us to offer a perfect adaptation to every type of product and installation.

Whatever the product has to be controlled, Dibal can provide you the right equipment to avoid the risk of metal contamination.