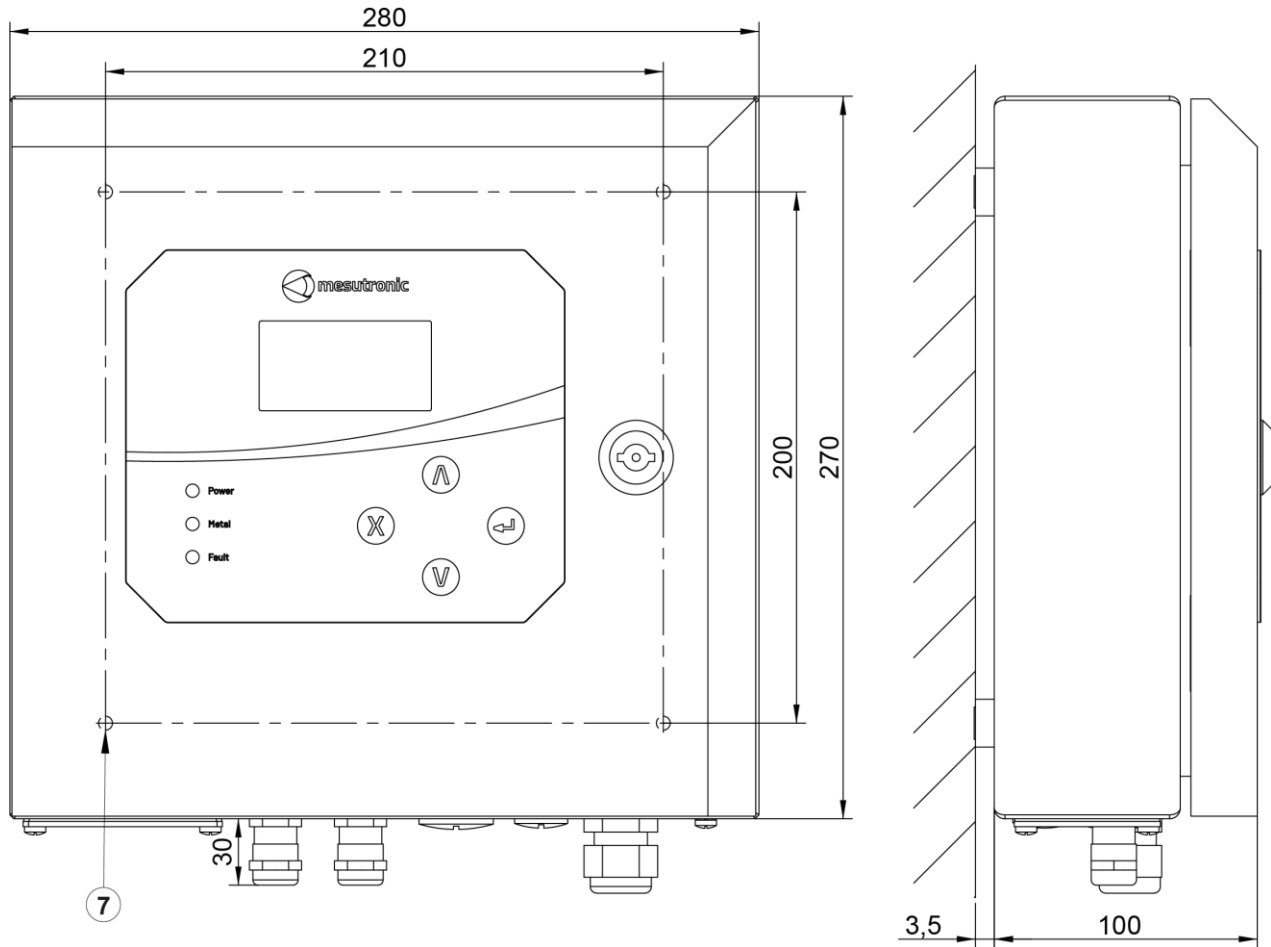


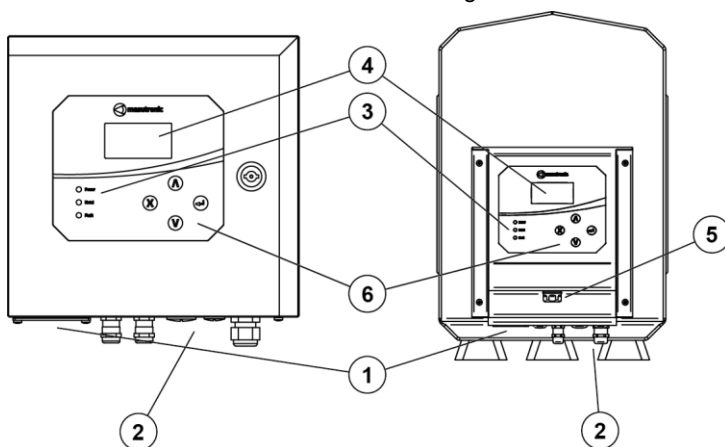
Dimensions



All dimensions in [mm]

Detached electronics

Integrated electronics



1

Adapter plate *Optionally available with:*

- 1 Button
- Additional cable glands
- USB port (detached electronics)

2 Cable passages for customer interfaces

3 Indicator lights

4 Display

5 USB port (integrated electronics)

6 Control buttons

7 Mounting holes 4x Ø5.2

Product description

The AMD 5.3 is a versatile and powerful electronics unit for controlling metal detection systems.

It ensures precise detection of metallic foreign objects.

It also supports reliable product separation and can be flexibly integrated into a very wide range of industrial applications.

Areas of application

The **AMD 5.3** electronics unit is designed for industrial use in **food and non-food applications**. It supports various conveying types, including **pressure conveying, suction conveying, free fall applications** as well as operation on **conveyor belts**. The possible **speed range extends from 0.001 m/s to 30 m/s**, which makes the AMD 5.3 suitable for processes with very low to very high conveying speeds. This allows for flexible use in a very wide variety of production and conveying environments.

Ambient conditions

Ambient temperature	-5°C to +50°C
Storage / transport conditions	-10°C to +60°C
Relative humidity	0% to 95% (without condensation)

Electronic housing

Material	Material for food: Stainless steel (AISI 304), sandblasted Material for non-food: Sheet steel, painted
Protection class	Food: IP 66 - <i>different specifications on request</i> Non-food: IP 65
Weight	6 kg

Functional characteristics

Operator interface	5-lines, 4 buttons LCD graphic display with membrane keypad
Menu structure	3 Levels, 2 freely configurable hotkeys
Password protection	Individual user management
Status display	LED display
Product memory / product management	Protected against power failure Parameter memory for 500 products
Log book / logging	20,000 Entries, protected against power failure
Multi-language capability	Multilingual user interface
Interfaces	Integrated control unit: Ethernet (RJ45), USB (type A) Remote control unit: Ethernet (RJ45), <i>optional: USB (type A)</i>
Communication protocols	OPC UA, MODBUS TCP, XML

Signal processing

Auto balance	Automatic adjustment to operating conditions
Active interference suppression	Multi-function filter system: Highly selective digital filter and dynamic response filter for interference-free operation
Frequency	Single frequency
Evaluation procedure	Basic phase, super phase

Quality assurance

Functional test	Functional test via detector test Test of separation mechanism via software
Test piece management with teach functionality	Integrated
Event counter	Metal counter on the display (metal counter, detector test, separation mechanism test, external actuation of separation mechanism, product counter)
Type of data backup	Flash, microSD

Electrical properties

Operating voltage	100 V - 240V AC, 50/60 Hz
Maximum power consumption	≤ 75 W
Mains connection	1.8 m cable with Schuko plug
Self-monitoring	Integrated
Switching inputs	7 freely configurable inputs (24 V DC), 1 analogue input
Switching outputs	4 outputs (24 V DC), 3 potential-free contacts (250 V AC)

Versions

- ATEX (dust): Zone 21 | 22 (exterior)

Conformity

Optionally available:

- NRTL certification (61010-1)
- IEC certification (61010-1)

Options

- Ambient temperature up to +70° C
- Ambient temperature to -20° C
- Power supply 24 V DC
- Country-specific power cable
- USB port (detached electronics)

Accessories

- WLAN module
- Signal combination for error status warning
- Display protective cover
- Metron signalling device protective cover
- Analogue input 4-20 mA
- Analogue output 0-10 V
- mesuEXPORT (automatic protocol export)
- mesuREMOTE (remote maintenance kit)
- mesuLINK (networking software)
- METRON RFID reader
- External reset "BUTTON"
- External reset "KEY"

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Technical changes and errors excepted.

Note:

If you require further product information that goes beyond the content of this technical data sheet and in particular concerns a specific use and the application of this product, please contact us.