



METAL DETECTOR

MDS - 100 / 100V

SUPER HIGH SENSITIVE HANDY TYPE
REACTING TO ALL METALS

INSTRUCTION MANUAL

SANKO ELECTRONIC LABORATORY CO., LTD.

(株式会社 サンコウ電子研究所)

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CAUTION

Before using the Detector, read this INSTRUCTION MANUAL thoroughly and use the Detector correctly and safely.

Keep this INSTRUCTION MANUAL carefully and refer to this, when necessary.

The Detector is assisting for simplification and efficiency up of detection or inspection work for straying metals as foreign bodies and dangerous substances.

For removing foreign bodies, use together not only this Detector but also other methods to be absolutely sure.

Applications

- For straying foreign bodies : Inspection and/or quality control for various industrial products, packed products, molded goods, processed goods, and so on
- For security : Defense and security for detecting lethal weapons such as knives, pistols, and so on
- For medical : Simply check for metallic accessories such as needles, hair pins, and so on before medical inspections with MRI and X-ray
- For industrial waste : Removal and classification of metals

Specifications

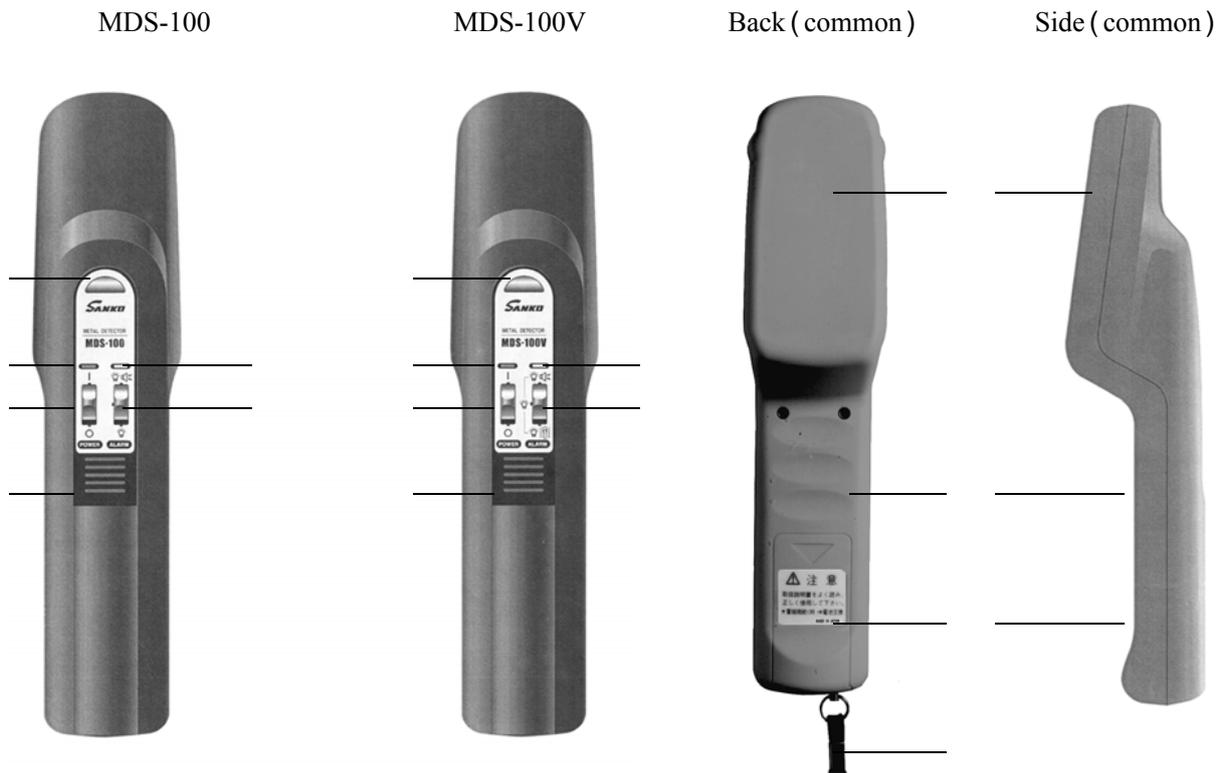
Model	Metal Detector	MDS-100 / MDS-100V
Detecting method	Variable inductance type	
Alarm	MDS-100 : lamp / lamp • buzzer	2 step conversion
	MDS-100V : lamp / lamp • buzzer / lamp • vibration	3 step conversion
Detecting width	10 × 4cm	
Detecting ability*	Steel ball 3.0 1cm, SUS 4.0 0.6cm, Pin 2.5cm, 100yen coin 7.5cm, Kitchen knife 15cm	
Temperature	0 to 50 (except dew condensing condition)	
Power	Dry battery* ¹ 6LR61 (9V) × 1pc	
	MDS-100 Available operating time for reference :	about 28days* ²
	(In case the Detector is used 8 hours with 10 times works of lamp • buzzer a day)	
	MDS-100V Available operating time for reference :	about 16days* ²
	(In case the Detector is used 8 hours with 10 times works of lamp • vibration a day)	
Dimensions & Weight	55 (W) × 57 (H) × 245 (D) mm, 220g	

* Detecting ability differs by the quality, size, shape, distance, direction of the metal piece and operating circumstances.

*1 When an alkaline battery (6LR61) is used, available operating time will be prolonged moreover.

*2 When only lamp is used for alarming without using the buzzer and vibration, the Detector can be used for longer time moreover.

Parts Identifications



LED lamp

Power ON/OFF indication window

Power switch (POWER)

Electronic buzzer

Alarm indication window

Alarm conversion switch

(MDS-100 : lamp • buzzer / lamp 2 step conversion)

(MDS-100V : lamp • buzzer / lamp / lamp • vibration 3 step conversion)

Detecting part

Grip

Battery room

Hand strap



Be sure to pass the hand strap around the wrist to prevent the Detector from dropping.

Operating Instructions

1. Power ON

Power ON by sliding the power switch . Indication window for power ON become to red and the LED lamp goes on instantly. (Response is deference depending on the position of the alarm conversion switch such as lamp, buzzer, vibration, and so on. Confirm the indication of the alarm indication window .)

2. Confirming detecting ability

Detecting ability is influenced by quality • size of an object to be examined, distance • direction , operating circumstances, and so on. Previously confirm if an object to be examined is possible for detection in quality, size, distance by holding the detecting part over the object.

3. Setting the alarm (alarm system)

The alarm is set as follows by the alarm conversion switch depending on purpose for use and circumstances.

Model	Alarm	Indication sketch	Indication window	Example
MDS-100 MDS-100V	Lamp • Buzzer		Green	Normal operation
MDS-100 ----- MDS-100V	Lamp		----- Orange ----- White	Noisy or quiet circumstances Emitting for surrounding of the alarm sound does not like
NDS-100V	Lamp • Vibration		Orange	Same as above case using lamp and conf. by vibration is needed

Setting condition can be confirmed with the indication by sketch and the alarm indication window .

4. Detection



Be sure to pass the hand strap around the wrist to prevent the Detector from dropping.

- Hold the grip part and check an object to be examined by keeping on the detecting part pressing against it.
- The Detector emits alarm when foreign bodies, dangerous substances, and so on are detected. Refer to the previous article "3. Setting the alarm (alarm system)" regarding setting the alarm (alarm system) .
- Several foreign bodies and dangerous substances may be included, confirm no these things exist in the object by re-examination after removing the detected bodies/substances.
- Be sure to power OFF by sliding the power switch after completing the examination. Then the indication window of power ON changes from red to gray.

5. Replacing the dry battery

When the dry battery consumes, the LED lamp goes on dimly and/or the buzzer emits sounds continuously. Replace the consumed dry battery with fresh one.

The lid of the battery room can be opened by sliding keeping on triangle part pressing.

1 dry battery 6LR61 (9V) is used. Take care the limit of use of the battery and replace it with fresh one, if necessary.

When the lid is opened, the trimmer appears in the lower part.

Be sure not to touch it as it is for balancing the electronic circuit.

Show rooms:

You are welcomed to the show rooms located at the following places.

- Tokyo show room near the Otemachi station of the subway
- Osaka show room at Tenjinbashi-kitazume
- Nagoya show room near the Kurokawa station of the subway
- Fukuoka show room near the Gofukucho station of the subway

Products sold:

Sales of Coating thickness meter, Pinhole detector,
Moisture meter, Needle detector, Iron piece detector
Condensator, Viscosity cup

Manufacturer:

Sanko Electronic Laboratory Co., Ltd.

- | | |
|----------------|---|
| Tokyo branch | Shibata Bldg. , 2-6-4, Uchikanda, Chiyoda-ku,
Tokyo 101-0047, Japan
Tel 81-3-3254-5031 Fax 81-3-3254-5038 |
| Osaka branch | Konishi Bldg. , 2-3, Sugawara-cho
Kita-ku, Osaka 530-0046, Japan
Tel 81-6-6362-7805 Fax 81-6-6365-7381 |
| Nagoya branch | Meihoku Bldg. , 3-11-27, Kinjo,
Kita-ku, Nagoya 462-0847, Japan
Tel 81-52-915-2650 Fax 81-52-915-7238 |
| Fukuoka branch | 11-11 Naraya-cho, Hakata-ku
Fukuoka 812-0023, Japan
Tel 81-92-282-6801 Fax 81-92-282-6803 |
| Head office | 1677 Hisasue, Takatsu-ku,
Kawasaki 213-0026, Japan
Tel 81-44-751-7121 Fax 81-44-755-3212 |