

GB

Operating instructions

Static Control Digital

Ident number:
12.7206.000



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Test Line

*Please read the
complete operating
instructions carefully
before use!*



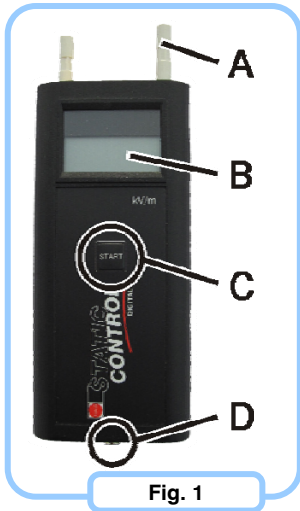


Fig. 1

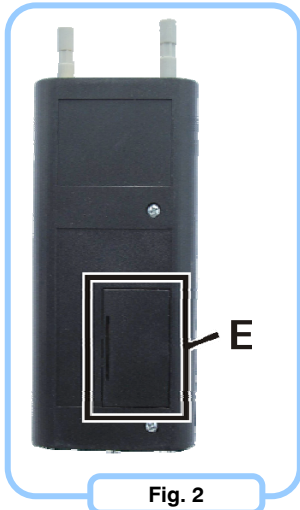


Fig. 2

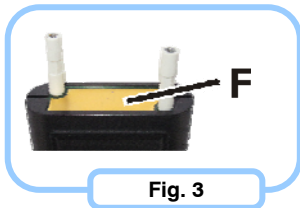


Fig. 3





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1 Introduction

Electrostatic charges may interfere with industrial production processes and destroy sensitive electronic components in the event of uncontrolled discharge. In particular, electrostatic charges occur in areas where highly insulating materials are used.

The Static Control Digital enables you to measure such electrostatic charges. Where electrostatic charges are present, targeted counter-measures for their elimination can be considered.

HAUG GmbH & Co. KG has been solving problems associated with electrostatic charges for a long time. We will be pleased to help you optimize your production processes. Just give us a call or send us an e-mail....

info@haug.de

2 Scope of delivery

Before using the Static Control Digital for the first time, make sure to check whether your delivery is complete.

The following parts are included in the delivery:

- Carrying case
- Static Control Digital
- 9 V monobloc battery (installed)
- Grounding cable
- Pick-off clip
- Calibration certificate
- Operating instructions D-0327-GB



Fig. 4

3 Operator instructions

Notes on operating instructions

Please keep these operating instructions for later use or future users. They form part of the Static Control Digital.

The term “Static Control Digital“ is abbreviated SCD in these operating instructions.

General notes regarding your Static Control Digital

The SCD has been designed and tested in accordance with the safety regulations for measuring and control equipment.

When using the SCD, make sure you read and observe the information and safety instructions contained in these operating instructions.

The SCD is operationally safe, provided that it is operated in accordance with its intended use.

3 Operator instructions

Symbols used

WARNING

If this safety information is not observed, severe injuries or death may result.

NOTE:

Important notes and additional information.



Do not dispose of with household garbage.

4 General safety instructions

All activities must be performed only by persons authorized by the owner. Such persons must have read and understood the operating instructions.

Unauthorized conversions and modifications of the SCD are not permissible for safety reasons.

Carry out a visual inspection each time before you use the SCD.

Do not use the SCD in the event of visible damage and suspected electrical defects. Contact HAUG GmbH & Co. KG. in this case (see cover sheet).

The SCD housing is not protected against moisture. Moisture and wetness may therefore enter the SCD. This may result in defects within the SCD or even failure.

- Protect the SCD from humidity and wetness.

In the event of large temperature differentials, condensation water will form on the colder object. Condensation water which has formed within the SCD may result in measuring errors or failure of the SCD.

- Do not use the SCD immediately after you have brought it from a cold into a warm environment.
- Allow the SCD to dry if condensation water has formed.

WARNING

Risk of explosion in areas with potentially explosive atmospheres.

During the measurement of electrostatic charges using the SCD, ignitable sparks may form. These may ignite gases, dust or similar substances.

- **Do not use** the SCD in areas with potentially explosive atmospheres.

The SCD is a measuring unit intended to measure electrostatic charges on surfaces and allows such charges to be measured in the range of ± 1999 kV/m.

Only use the SCD under the operating conditions specified in these operating instructions.

6 Description of unit

You will find images (Figs.) of the SCD on the inside cover page.

Front view

- A Spacer pin
- B Display
- C Start button
- D Ground button

Fig. 1

Rear view

- E Battery compartment lid

Fig. 2

Narrow side view

- F Sensor plate

Fig. 3

Before measuring

Before measuring, check the SCD. Check the function of the display and the state of the battery.

Press and hold the start button. The display will show all segments briefly (Fig. 5).



Fig. 5

The LOBAT indicator will flash to alert you to a low voltage of the block battery.

If the LOBAT indicator is displayed continuously, the voltage is too low for accurate measurement. No reliable measuring value can be provided. Replace the block battery (see page 14: “Replacing the block battery”).

NOTE:

The SCD must be switched off so that all segments of the display can be shown while holding the Start button. The SCD will switch off automatically after 15 s.

Visually inspect the SCD for any contamination. To obtain a reliable measuring value, the spacer pins and sensor plate must be dry and free of grease (see page 14: “Cleaning the SCD”).

7 Measuring

Preparing a measurement

Plug one end of the grounding cable into the ground socket of the SCD.



Fig. 6

Connect the other end of the grounding cable to a protective ground, e.g. by using the pick-off clip.



Fig. 7

NOTE:

The SCD is calibrated when connected to ground. A reliable measuring value can only be provided when the SCD is connected to ground.

Carrying out a measurement

1. Hold the SCD vertically with its two spacer pins against a grounded surface.
2. Press and hold the start button. The SCD will calibrate itself and show a value of "000" on the display.



Fig. 8

3. Now approach the surface to be measured with the SCD, until the spacer pins come to rest vertically.



Fig. 9

4. Release the Start button. The measuring value will now be saved.
5. Remove the SCD from the surface measured.
6. Read the measured value on the display.

NOTE:

The measuring value will be displayed for about 15 s (hold function). The SCD will then switch off automatically.

Replacing the block battery

1. Open the battery compartment lid at the rear of the SCD.
2. Remove the block battery from the compartment and separate from the connection clip.
3. Connect a new block battery to the connection clip, and insert battery into compartment.
4. Reattach the lid to close the battery compartment.

Fig. 2

NOTE:

Do not dispose of batteries with the household garbage (see page 18: "Disposal of batteries").

Cleaning the SCD

1. Moisten a dust- and lint-free cloth with our special cleaning agent SRM1 or with medical-grade alcohol.
2. Clean the spacer pins and sensor plate using the moistened cloth.
3. Allow the SCD to dry before performing a measurement.

Fig. 3

NOTE:

Reliable measuring values will not be provided unless the cleaning agent has evaporated completely.

9 Spare parts

Article	Ident number
Carrying case	X - 4568
Spacer pin	X - 8308
Grounding cable	X - 6350
Pick-off clip	X - 6349
9 V monobloc battery	X - 0071
Special cleaning fluid SRM1	10.7220.000
Operating instructions	D - 0327 - GB

10 Technical data

Characteristics and specification

Voltage supply	9 V monobloc battery
Measuring range	± 1999 kV/m
Measuring accuracy	± 20 %
Weight	220 g

Ambient conditions

The meter must not be used in areas with potentially explosive atmospheres or power plants.

Only for use in interiors.

Temperature:	
Rated application range	+10 °C to +35 °C
Extreme range for storage and transport	-15 °C to +60 °C
Humidity:	
Rated application range	10 % to 50 % RF
Extreme range for storage and transport	0 % to 85 % RF

Overall dimensions

Height	205 mm
Width	77 mm
Thickness	26.5 mm

Taking the SCD out of operation

1. Open the battery compartment lid at the rear of the SCD.
2. Remove the block battery.
3. Separate the block battery from the connection clip.
4. Reattach the lid to close the battery compartment.
5. Place the SCD with its accessories in the carrying case.

Fig. 2

Storing the SCD

Store the SCD in its carrying case in a dry and cool location.

Disposing of the SCD



Do not dispose of electrical units with your household garbage. Electrical appliances must be collected separately and recycled in an environmentally responsible way.

All national and regional waste disposal regulations must be observed and complied with during disposal.

If you are unable to find an appropriate disposal facility, please feel free to return the electrical unit to HAUG GmbH & Co. KG for environmentally responsible disposal (for address, refer to cover sheet).

11 Decommissioning

Disposal of batteries



Do not dispose of batteries with your household garbage. You are obliged to dispose of batteries properly.



Batteries can be taken to the recycling points in your community or returned to shops selling batteries.



