

Declaration of Conformity

ICR HH, HV and E150 sets

Near-Field Microprobe sets



- Translation of the original German user manual into English -

Contents:	Page
1 Declaration of Conformity.....	3
2 General Information.....	4
2.1 Retention of the User Manual.....	4
2.2 Reading and Understanding the User Manual.....	4
2.3 Local Safety and Accident Prevention Regulations	4
2.4 Illustrations.....	4
2.5 Limitation of Liability.....	4
2.6 Errors and Omissions.....	4
2.7 Copyright.....	4
3 Safety.....	5
3.1 Labels and Signs.....	5
3.2 Intended Use.....	5
3.3 Reasonably foreseeable Misuse.....	5
3.4 Safety Instructions.....	6
4 Information on Recycling and Disposal.....	7
5 Customer service.....	8
6 Warranty	9

1 Declaration of Conformity

Manufacturer:

Langer EMV-Technik GmbH
Nöthnitzer Hang 31
01728 Bannewitz
Germany



Langer EMV-Technik GmbH herewith declares that following sets:

ICR-HH “xxx-x” set, Near-Field Microprobe set including the products:

- **BT 706**, Bias Tee for Langer probes and
- **ICR HH100-6**, Near-Field Microprobe or
- **ICR HH100-27**, Near-Field Microprobe or
- **ICR HH150-6**, Near-Field Microprobe or
- **ICR HH150-27**, Near-Field Microprobe or
- **ICR HH250-6**, Near-Field Microprobe or
- **ICR HH250-75**, Near-Field Microprobe or
- **ICR HH500-6**, Near-Field Microprobe or
- **ICR HH500-75**, Near-Field Microprobe

ICR-HV “xxx-x” set, Near-Field Microprobe set including the products:

- **BT 706**, Bias Tee for Langer probes and
- **ICR HV100-6**, Near-Field Microprobe or
- **ICR HV100-27**, Near-Field Microprobe or
- **ICR HV150-6**, Near-Field Microprobe or
- **ICR HV150-27**, Near-Field Microprobe or
- **ICR HV250-6**, Near-Field Microprobe or
- **ICR HV250-75**, Near-Field Microprobe or
- **ICR HV500-6**, Near-Field Microprobe or
- **ICR HV500-75**, Near-Field Microprobe

ICR E150 set, Near-Field Microprobe E-field set including the products:

- **BT 706**, Bias Tee for Langer probes
- **ICR E150**, Near-Field Microprobe

ICR 03 set, Near-Field Microprobe set including three of the Near-Field Microprobes above and

- **BT706**, Bias Tee for Langer Probes

conform with the following relevant regulations:

- EMC Directive 2014/30/EU
- Low-Voltage Directive 2014/35/EU
- Restriction of certain Hazardous Substances 2011/65/EU

The following applicable standards were used to implement the requirements specified by the forementioned directives:

- DIN EN IEC 61000-6-1:2019-11 (EMC immunity)
- DIN EN IEC 61000-6-3:2022-06 (EMC emission)
- DIN EN 61010-1:2020-03 (Safety)
- DIN EN IEC 63000:2019-05 (Restriction of hazardous substances)

Note: All Langer EMV-Technik Near-Field Microprobes are only to be used with Langer EMV-Technik BT 706 Bias Tee!

Name of the person authorized to compile the technical documentation

Katja Langer

Bannewitz, 2025-09-08

Signature:

K. Langer, CEO

2 General Information

2.1 Retention of the User Manual

The user manual for the **ICR-Probe set** ensures safe and efficient operation. It must be kept near the device and be readily accessible to the user at all times.

2.2 Reading and Understanding the User Manual

Read this user manual carefully and follow the instructions provided before operating the device. Pay particular attention to the safety instructions in **Chapter 3**.

2.3 Local Safety and Accident Prevention Regulations

Die örtlichen Unfallverhütungs- und Sicherheitsvorschriften sind für den bestimmungsgemäßen Gebrauch des *ICR-Probe set* zu beachten.

2.4 Illustrations

The illustrations in this manual are provided for reference only and may differ from the actual product.

2.5 Limitation of Liability

Langer EMV-Technik GmbH shall not be liable for personal injury or property damage if:

- the information provided in this manual has not been followed,
- the **ICR-Probe set** has been operated by personnel who are not qualified in the field of EMC,
- unauthorized modifications or technical changes have been made to the **ICR-Probe set**,
- the **ICR-Probe set** has not been used for its intended purpose,
- non-approved spare parts or accessories have been used.

The scope of delivery may differ from the illustrations and descriptions in this user manual due to customer-specific configurations or technical modifications.

2.6 Errors and Omissions

The information contained in this manual has been carefully reviewed and is believed to be accurate. However, Langer EMV-Technik GmbH assumes no liability for typographical, printing, editorial errors, or omissions.

2.7 Copyright

The contents of this user manual are protected by copyright and may only be used in connection with the **ICR-Probe set**. This manual may not be used for any other purpose without the prior written consent of Langer EMV-Technik GmbH.

3 Safety

3.1 Labels and Signs

		
General warning sign	Warning; Electricity	Prohibition sign; No access for people with active implanted cardiac devices.
Table 1: Safety signs		

Safety instructions in this user manual are marked by symbols (**Table 1**). Observe the safety precautions and act cautiously to avoid accidents as well as personal and material damages.

3.2 Intended Use

The ICR-Probe set is intended for the investigation of field-related electromagnetic emissions from integrated circuits. The probes included in the set are designed for measuring high-frequency magnetic and electric fields. They convert the field quantities into measurable currents and voltages. The probes may only be used by personnel qualified in the field of EMC for measuring these near fields. They are designed for connection to spectrum analyzers, oscilloscopes, and comparable measuring instruments.

Since these are near-field probes, touching the device under test (DUT) or making electrical contact is not necessary for proper operation.

3.3 Reasonably foreseeable Misuse

	Danger resulting from misuse!
	Misuse of the ICR sets can lead to dangerous situations!
Warning!	

Incorrect applications of the sets include:

- Use of the product outside of the given specifications.
- Modification or changes to the product without the consent of Langer EMV Technik GmbH.
- Operation of the product with a technical defect.

3.4 Staff Requisition

Only qualified staff with training, knowledge, and experience in the field of EMC is allowed to operate the ICR-Probe set.

Persons whose ability to perform is influenced or impaired by alcohol, drugs, or pharmaceuticals, are not allowed to operate the ICR set.

3.5 Safety Instructions

	Danger resulting from electricity! Risk of injury by electrocution! Risk of burns due to heat!
Warning; Electricity!	

The operating and safety instructions for all equipment used in conjunction with the ICR-Probe set must be observed.

Damaged or defective equipment must not be used.

The use of the near-field probes on devices under test (DUTs) operating at voltages exceeding SELV (Safety Extra-Low Voltage) is permitted only for trained personnel. Appropriate protective measures (e.g. an isolation transformer or additional insulation) must be provided to protect against electric shock and to minimize the risk of injury.

Depending on the measured field strength, the probe output may generate voltages exceeding the maximum permissible input voltage of the connected measuring instrument. This may also occur during short-duration events such as short circuits, high inrush currents, or similar conditions. If necessary, appropriate protective devices such as attenuators, transient limiters, or equivalent protection should be used.

To achieve high sensitivity, the probe is provided with a very thin outer protective coating that is sensitive to mechanical stress. Therefore, this coating does not provide guaranteed electrical insulation. If necessary, the user must provide suitable insulation to protect both the device under test and the connected measuring instrument.

4 Information on Recycling and Disposal



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In accordance with the WEEE Directive 2012/19/EU (Waste of Electrical and Electronic Equipment), the following must be observed:

At the end of its service life, this product should be taken to a suitable disposal facility for recycling and disposal. Do not dispose of with household waste.

5 Customer service

Please contact us if you have any questions, comments or suggestions.

You can contact us:

Monday – Friday

8:00 Uhr bis 15 Uhr (CET)

Contact us at:

Address: Langer EMV-Technik GmbH
Nöthnitzer Hang 31
01728 Bannewitz
Germany

Internet: <https://www.langer-emv.com/>

E-mail: sales@langer-emv.de

Phone: +49 (0) 351-430093-0

Fax: +49 (0) 351-430093-22

Calibration

We recommend having the product calibrated every two years by the manufacturer Langer EMV-Technik GmbH or by a certified distributor.

6 Warranty

Langer EMV-Technik GmbH shall remedy all defects attributable to material or manufacturing faults within the statutory warranty period by repairing the product or supplying replacement parts.

This guarantee is only granted on condition that:

- the information and instructions in the operating instructions are observed.

The guarantee expires if:

- an unauthorized repair is carried out on the product
- the product is modified
- the product is not used as intended

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