

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

Customer service

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

You can contact us:

Monday – Friday
8:00 a.m. – 3:00 p.m.

Contact us at:

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

Web: www.langer-emv.de
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 service partner.

Declaration of Conformity

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

Langer EMV-Technik GmbH herewith declares that the

ICI-DP "xxx" set, Double Pulse Magnetic Field Source set including the products:

- BPS 204, Burst Power Station and
- ICI-DP HH1000-15, Double Pulse Magnetic Field Source and/or
- ICI-DP HH500-15, Double Pulse Magnetic Field Source and/or
- ICI-DP HH250-15, Double Pulse Magnetic Field Source and/or
- ICI-DP HH150-15, Double Pulse Magnetic Field Source

conforms 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 a 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)

Name of the person authorized to compile the technical documentation:

Katja Langer
Bannewitz, 2026-05-20
Signature:



K. Langer, CEO



LANGER
EMV-Technik

ICI-DP set

Double Pulse Magnetic Field Source Set



Scan Now User Manual:

ICI-DP sets



https://www.langer-emv.de/downloads/ICI-DP_set

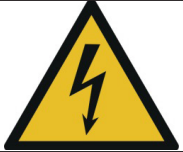
BPS 204



https://www.langer-emv.de/downloads/BPS_204

Safety

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.

Intended Use

The ICI-DP set is used for high-precision and high-resolution IC security analyses based on EM fault injection.

The ICI-DP set consists of one or more double pulse sources (e.g. magnetic field source) and the BPS 204 Burst Power Station.

The ICI-DP probes are equipped with high-resolution probe tips that enable the testing of extremely small areas. In addition, the ICI-DP probes are characterised by a very low trigger pulse delay and very low jitter, which makes it possible to disturb a very specific point in time during the programme sequence of an IC under test.

The ICI-DP probes are connected to the BPS 204 Burst Power Station, which provides the high voltage supply and control signals. The BPS 204 is connected to a computer via a USB interface and is controlled via the BPS 204-Client software or the DLL functions supplied.

- EM fault injection and analysis (EMFI)
- EM pulse coupling

The user must follow all information and instructions in this user manual. The ICI-DP set may only be used in an environment with a temperature of 10 to 30 degrees Celsius and a humidity of 20 to 85 per cent without condensation.

Reasonably foreseeable Misuse

	Danger resulting from misuse! Misuse of the ICI-DP set 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.

Staff Requisition

Only trained or experienced personnel in the field of IC security or EMC may operate the ICI-DP probe.

Persons whose performance is impaired by alcohol, drugs or medication must not operate the ICI-DP set.

Safety Instructions

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

RF currents can cause irreversible damage to the body, therefore the following safety instructions have to be observed.

- All cable connections must be closed before operating the ICI-DP set.
- Do not touch the probe tip of the ICI-DP when it is in operation.
- If the insulation is damaged (e.g. cables), the power supply must be disconnected immediately.
- Damaged parts must be replaced with undamaged parts before commissioning. Contact Langer EMV-Technik GmbH to obtain a replacement.
- Protect contacting parts from moisture to avoid short circuits.
- Never leave a Langer EMV-Technik GmbH product unattended while it is in operation.

Always check all attachments, measuring devices, cables and probes before using the ICI-DP set. Never use damaged or defective devices.

Only employees of Langer EMV-Technik GmbH may open the ICI-DP probes or the BPS 204 and work on the electrical components and electrical cables.

If you notice any damage to lines, cables or electrical components, switch off the device immediately, pull out the mains plug, secure the ICI-DP set against being switched on again and contact Langer EMV-Technik GmbH!

	Danger resulting from electro-magnetic fields! Risk of affecting a cardiac device!
Prohibition; No access for people with active implanted cardiac devices	

Electromagnetic near fields are generated on the probe due to its function. For this reason, persons with a cardiac device, such as a pacemaker, must not work on or approach the ICI-DP set during operation.



Information on Recycling and Disposal

In accordance with the WEEE Directive 2012/19/EU (Waste 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.