

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

P512 Set, RF Power Injection / RF Probe head
with Probe P512

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 aforementioned 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



P512 set

RF power injection and RF measurement



Scan Now: User Manual

https://www.langer-emv.de/downloads/P512_set

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 probe set P512 Set is used for testing the conducted immunity of integrated circuits. In accordance with the IEC 62132-4 standard, radio frequency power can be introduced into the circuits via the probe P512. The built-in DPI coupling network can couple RF power of up to 2 W at a frequency of up to 12 GHz. When adapted to 50 Ω, RF signals up to the specified maximum frequency can also be measured via the measuring tip. The P512 probe is built according to its specified use and should therefore only be used for the following purposes:

- Conducted injection of RF power into IC pins or balls with the P512 within the stated specifications.
- RF measurements of the emitted signals considering the coupling network of the P512.

Reasonably foreseeable Misuse

	Danger resulting from misuse! Misuse of the P512 set can lead to dangerous situations!
Warning	

Incorrect applications of the sets include:

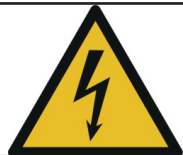
- Use of the product outside of the given specifications.
- Modification or changes to the product without the consent of Langer EMV-Technik GmbH.
- Operation of the product with a technical defect.

Staff Requisition

Only qualified staff with training, knowledge, and experience in the field of EMC is allowed to operate the P512 Set.

Persons whose ability to perform is influenced or impaired by alcohol, drugs, or pharmaceuticals, are not allowed to operate the P512 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 P512 probe.
- Do not touch the probe tip of the P512 probe when it is in operation.
- If any insulation is damaged, the power supply must be disconnected immediately.
- Damaged parts must be replaced with undamaged parts before operation. Contact Langer EMV-Technik GmbH to obtain a replacement.
- Protect live parts from moisture to avoid short circuits.
- Never leave a Langer EMV-Technik GmbH product unattended while it is in operation.

	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 at the probe due to its function. Therefore, persons with a cardiac device, such as a pacemaker, must not work on or approach the P512 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.