

ISO 18047 test bench

The most reliable tool for contactless Vicinity tags and smartcards compliance checking

- ◆ Tool to perform ISO/IEC 18000-3 and ISO/IEC 15693 compliance checking
- ◆ All accessories designed according to ISO/IEC 18047-3 and ISO/IEC 10373-7
- ◆ Sturdy support
- ◆ Accurate positioning and manipulation



OVERVIEW :

Overview

Ideal tool to perform RF testing based on the Vicinity technology
Completely implements the recommendations of the ISO/IEC 18047-3 and ISO/IEC 10373-7 specifications
Complete toolset, allowing to perform all tests described inside the specifications
Performs smartcard/tag as well as reader testing
Uses an oscilloscope and a RF amplifier
Supplied with all necessary accessories (antennas, coils, references)

This tool will typically be used in the following contexts :

Interoperability testing
RF characterisation of a Vicinity tag
Rf characterisation of a Vicinity reader

SPECIFICATIONS :

Scope of delivery

Test interrogator antenna
Two sense coils
Calibration coil
Reference tag
Sense coil balance board
Reference tag for load modulation test
High impedance probe
CD containing the user manual and C program

VICC possible test (tag or smartcard)

Load modulation measurement

Frame timings measurement

Verify the ability of a VICC to receive VCD commands

VCD possible tests (reader)

Ability of a VCD to power a VICC

Minimum load modulation signal from the VICC detection

Qualification of the VCD operating volume

Timings measurement

Test environment tuning (setup phase)

Magnetic field measurement

Antenna tuning

Symetry of the mechanism

Boards and mechanics

The tool includes a set of antennas and boards designed following the specifications defined in the standard. Those different pieces of equipment

Conditions of use

A digital sampling oscilloscope and a RF amplifier are needed. Please contact your nearest Micropross representative for more information.

ACCESSORIES :

Micropross supplies with the ISO 18047 test bench all necessary accessories to perform all tests that are described inside the test specifications.

Those accessories include antennas, measurement probes, coils, references VICC.

In order to avoid the hassle of searching for the right measurement devices, Micropross can also provide RF amplifiers and oscilloscopes, thus ensuring you of a perfect compatibility and ability to perform all tests.