

MP300 TCL1

Laboratory Range

The contactless laboratory solution for chip characterization.



- ✓ Contactless smart cards reader and tester for laboratory
- ✓ Numerous adjustable parameters
- ✓ Support of type A, type B, Mifare, Felica
- ✓ Trace visualization & analysis
- ✓ Frequency resonance and chip impedance measurement.

MP300 TCL1 Overview

The MP300 TCL1 is the ideal tool for your laboratory. Highly customizable, this device offers you a flexible solution to validate your contactless smart cards and their applications. The sequencer function allows a perfect repeatability of test scenarios. Moreover, you will benefit from the resonance frequency and the chip impedance measurement.

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Technical specifications

■ Programmable parameters

Carrier frequency : 12.56 to 14.56 MHz
RF field strength
ASK modulation index : 0 to 100%
Data rate up to 848 kbits/s
Pause width
Framing type B : SOF,EOF,EGT,bit duration
Time TR2
Modulation rise and fall time
RF field rise time
Frame Waiting Time

■ Protocols

ISO/IEC 14443 Type A
ISO/IEC 14443 Type B
Mifare™
Felica™
Custom protocol

■ Measurements

Resonance Frequency and Q factor

From 11 MHz to 24 MHz

Chip impedance

Done at 13.56 MHz

■ Separated Rx channel

This feature allows to dialogue with the smartcard via a RF amplifier.

■ Others

Communication

USB 2.0

TCP/IP 10/100 Mbits/s

Development

Development in : C, C++, VB, delphi, Java, ..

Communication DLL

■ Logger

Resolution 20 ns

Carrier and subcarrier detection

| Type A sequences |
| Phase changes |
| Bytes and frames |
| User event, Trigger In, Trigger Out |

■ Antenna

The MP300 TCL1 is delivered with the antenna PN 907-2064, size 115*70 mm.

Other Antenna can be designed upon specification for easier integration.

The 50 Ohms output impedance allows to use the PCD antenna described in the ISO/IEC 10373-6 standard.

For the resonance frequency measurement, a ID 1 format one loop antenna is also supplied.

■ Our service

We provide you not only an useful product but also an efficient technical support and our experience. Micropross is at your disposal for any user requirement.

Micropross is an ISO 9001 V 2000 certified company.



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