

MP300 TC2

Laboratory Range

The ultimate solution for contact smartcard testing



- ✓ Numerous adjustable parameters
- ✓ Perfect repeatability of test scenarios
- ✓ Trace visualization & analysis
- ✓ Advanced measurements capabilities
- ✓ Injection of perturbations in the dialog

MP300 TC2 Overview

Beyond the application testing, the MP300 TC2 brings you the right solution to get the diagnosis of your smart card.

- Carefully designed, its accuracy will enlighten the smallest details, whether the issue is timing or electrical related.
- Exclusive hardware features allow an unmatched flexibility.
- And, when confronted to the toughest test scenarios, you can rely on the MP300 TC2 repeatability

MP300 TC2

Technical specifications

■ Programmable parameters

Voltage

$V_{CC}, V_{OL}, V_{OH}, V_{IL}, V_{IH}$

Timing

Fall & Rise Time on every pins

Clock stop: High & Low, t_g, t_h

Glitch Width & Glitch Position

Adjustable guard and waiting times

Parity handling: Output/ Input

I/O output : adjustable ETU width

I/O input : adjustable sampling moment

Pull-up : Resistance and current source

Frequency

Clock

Duty Cycle

■ Protocols

ISO/IEC 7816 standard

Support of ISO7816-3 (T=0, T=1), flow control, synchronous cards (I2C, T2G, Eurochip,...)

USB

Support of ISO 7816-12 standard and above

Out of standard smart card

Implementation of T=14 or custom protocols

■ Advanced functionalities

Visualisation

All events captured on all pins

Dating of events in clock cycles or ns

Adjustable sensitivity

Adjustable high and low input thresholds

Clock frequency

Eight user events available

Timing analysis : ISO/EMV/Customs protocols

2 power supplies (+5V/+12V) on front connector

Trigger in , trigger out

■ Perturbations

Generation

Forced parity errors (In/out)

Forced reception error (wrong character)

Glitch

■ Advanced electrical tests

Test Functions

Open/ Short Test

Current measurement

Leakage current measurement on any pin

Consumption (burst), dynamic and static on C1

Mode single/ multiple

Voltage Measurement

Voltage on any pins

Mode single, or multiple

Adjustable number of samples and frequency

■ Optional devices

Software

EMV Level1 VISA test suite

Hardware

External probe

ISO/SIM adapters

External spy

Measurement probe

■ 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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