FOR PRECISE TERMINAL TESTING

FOR YOUR IT^3

IT^3 ANALOG SCOPE

The Analog Scope function is used for unfiltered recording and visualization of the signals measured by the IT^3 Platform. In the event of terminal hardware errors, a multi-level, complex trigger logic enables signal recording to enhance the users abilities for analyzing and resolving these errors.

- MONITOR
- DIGITAL
- ANALOG

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FOR YOUR IT³

IT³ ANALOG SCOPE

Technical Details

Channels:
- Simultaneous recording of max. 3 analog channels or 12 digital and 2 analog channels

Analog channels:
- Voltage measurement on the contacts VCC, RST, CLK, IO, VPP

Digital channels:
- All logical contact signals as well as all measurement thresholds

Special signals (digital):
- Burst detection, rise and fall time overrun (RST, VPP, IO)
- direction detection, clock-stop detection, idle mode,
- error signal generated by clock measurement (based on frequency and duty cycle errors, rise and fall time overruns)

Vertical resolution (Y axis):
- Voltage measurement on the contact VCC, RST, CLK, IO, VPP: 12 bit, represents approx. 3mV (measurements from -2V ...+10V; in line with IT³ Analog Simulator)

Time basis for sampling:
- 20 ns . . . 100 ns [Step 20 ns]
- 100 ns . . . 1000 ns [Step 100 ns]
- 1 µs . . . 10 µs [Step 1 µs]
- 10 µs . . . 100 µs [Step 10 µs]
- 100 µs . . . 1000 µs [Step 100 µs]

Trigger:
- Complex trigger with 2-stage cascading
- Trigger sources: all digital channels
- PRE / MID / POST trigger function

Recording depth:
- 4k to 256k per channel

Presentation of recordings:
- Max. 2 analog and 4 digital channels simultaneously
- Zoom function (X and Y axis)
- Measurement cursors (X and Y axis)
- Bookmarks

Output:
- Printer
- File (bmp format)

System requirements:
- IT³ Analog Simulator

Special features:
- Specific recording and visualization of signal errors in Layer 1 that are reported using IT³
- Specific measurement of results due to complex trigger function
- No additional electrical influence on tested device

MONITOR
DIGITAL
ANALOG

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