TESTABILITY FROM COMPRION

IT³ MOVE! ANALOG SCOPE

The Analog Scope function is used for unfiltered recording and visualisation of the signals measured by the IT³ Move!. In case of logical errors, a multi-level, complex trigger logic enables signal recording to enhance the users abilities for analysing and resolving these errors.

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Technical Details

Channels:
- Simultaneous recording of max. 3 analog channels and 6 digital channels

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

Digital channels:
- All logical contact signals
- 4 independently configurable measurement thresholds

Special signals (digital):
- Clock-stop and direction detection
- 2 signals to determine the voltage class
- 2 signals to detect “byte-errors” and parity-errors
- Signal which shows that an entire byte was send by terminal or card

Vertical resolution (Y axis):
- Voltage measurement on the contact VCC, RST, CLK, IO: 10 bit, represents approx. 6mV (measurements from 0V to 6V)

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
- Triggering on max. 16 byte long communication string including the presetting of the direction of communication for each byte
- Triggering on “byte-errors” and parity-errors
- Variable delay between trigger and start of signal recording

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 Move! software version 4.0 or higher

Special features:
- Specific measurement of results due to complex trigger function
- No additional electrical influence on tested devices
- Supports Fi/Di = 8

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