

## Voltscanner MI 2130



## 1-phase voltage recorder for quick EN 50160 power supply assessment



**Voltscanner is a 1-phase voltage recorder for testing supply voltage on a socket in accordance with EN 50160 power quality standard.**

**Recording up to four weeks is possible and up to 3500 events can be stored into the instrument's memory module.**

**MS Windows compatible PC Software ScanLink supports downloading, management of recorded data and preparation of test reports.**

### Target applications

- Supply voltage testing in accordance with EN 50160 is now possible even for unskilled people.
- Capturing and recording of power supply events (shut-down's, interruptions, sags, dips, transients).
- Ideal solution for IT managers who want to control input voltage.
- Voltage monitoring on the customer's side for power distribution companies.
- Pre-programmed instrument can be simply sent to the customer and connected to the socket for a definite period of time.

### Main features

- EN 50160 Auto mode
- Recording of voltage interruptions, dips, sags and swells
- All events are selected by character, time and duration
- Voltage transients down to 1µs can be captured
- Adjustable triggering limits for voltage events
- LED indication of recorded events
- Instrument can be configured either directly or over PC
- Windows compatible ScanLink PC Software supports downloading and programming of the instrument. Transfer of recorded data to other MS programmes (Excel, Word, etc.) is possible as well.

### Standards

Instrument is developed and manufactured in accordance with following standards:

**Safety:** IEC/EN 61010-1

**EMC:** IEC/EN 61326-1

**Measurements:** EN 50160

### Detailed reports and graphs with

**ScanLink** Windows software for analysing and print-outs with a complete history of captured events in a tabular or graphic form (statistics). Reports can be presented either in a pre-arranged EN 50160 or customized form.



# Technical specification

## Measurement

### Voltage (L - N)

|            |                       |            |
|------------|-----------------------|------------|
| Range      | Accuracy              | Resolution |
| 90 ÷ 265 V | ± 2 V of reading +2 % | 1 V        |

### Voltage (N - PE)

|           |                       |            |
|-----------|-----------------------|------------|
| Range     | Accuracy              | Resolution |
| 0 ÷ 155 V | ± 2 V of reading +2 % | 1 V        |

### Frequency

|             |          |            |
|-------------|----------|------------|
| Range       | Accuracy | Resolution |
| 47 ÷ 52 Hz, | ± 0.1 Hz | 0.1 Hz     |
| 57 ÷ 62 Hz  | ± 0.1 Hz | 0.1 Hz     |

### Transients

|                |          |            |
|----------------|----------|------------|
| Range          | Accuracy | Resolution |
| 50 to 2600 V   | ± 10 %   | 5 V        |
| Minimum width: | 1 µs     |            |

## General

|                         |                                                                       |
|-------------------------|-----------------------------------------------------------------------|
| Nominal Supply Voltage: | 230 V or 120 V                                                        |
| Nominal Frequency:      | 50/60 Hz                                                              |
| Communication:          | RS 232 serial interface, fully opto isolated, 9 pin, D-type connector |
| Memory:                 | 32 kB, 3500 events                                                    |
| Power supply:           | Battery-rechargeable NiMH 1.2 V, 4 pcs                                |
| Overvoltage category:   | CAT III/300 V                                                         |

## Ordering information:

Standard set

Part No. MI 2130



- Instrument VoltScanner
- Mains measuring cable, 1.5 m
- Battery-rechargeable NiMH 1.2 V, 4 pcs
- PC SW ScanLink
- RS232 cable
- Instruction manual
- Product verification data

## Optional accessories:

| Photo                                                                                 | Order No. | Acc. description                                   |
|---------------------------------------------------------------------------------------|-----------|----------------------------------------------------|
|    | A 1020    | Small soft carrying bag                            |
|   | S 1112    | Universal test cable 1.5 m with 3 safety test tips |
|  | S 2010    | Alligator clips                                    |



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