

Issued by : NMI Certin B.V.,  
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Applicant : Iskra, d.d.  
Stegne 21  
SI-1000 Ljubljana  
Slovenia

Submitted : **A meter embedding IEC 61000-4-30 Power Quality functions**  
Manufacturer : Iskra, d.d.  
Type : MC784 / iMC784

Characteristics : See page 2 and further

In accordance with : **IEC 61000-4-30 Ed. 3 (2015)**  
"Electromagnetic Compatibility (EMC) – Part 4-30: Testing and  
measurement techniques – Power quality measurement methods"

Measurement class : IEC 61000-4-30 class A

The undersigned declares that the described product is tested according to the above mentioned standard and meet their requirements, based on a non-recurrent examination. The appertaining test data is presented in type evaluation report number NMI-16200171-01, granted by NMI Certin B.V.

NMI Certin B.V.  
22 July 2016



C. Oosterman  
Head Certification Board



# Certificate of Conformity

Number CoC-16200171-01  
 Project number 16200171  
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## IEC 61000-4-30 Power Quality functions tested

The following IEC 61000-4-30 measurement methods have been tested

**Table 1 IEC 61000-4-30 Power Quality functions tested**

| IEC 62586-2 Clause | Parameter  | Class A | Implemented | Comments  |
|--------------------|--|---------|-------------|---|
| 6.1                | Power frequency  | Yes     | Yes         |   |
| 6.2                | Magnitude of the supply voltage                            | Yes     | Yes         |   |
| 6.3                | Flicker  | Yes     | Yes         |   |
| 6.4                | Supply voltage interruptions, dips and swells              | Yes     | Yes         |   |
| 6.5                | Supply voltage unbalance                                   | Yes     | Yes         |   |
| 6.6                | Voltage harmonics  | Yes     | Yes         |   |
| 6.7                | Voltage inter-harmonics                                    | Yes     | Yes         |   |
| 6.8                | Mains signalling voltages on the voltage supply            | Yes     | Yes         |   |
| 6.9                | Measurement of underdeviation and overdeviation parameters | -----   | -----       | This function is informative in IEC 61000-4-30 (2015) |
| 6.10               | Flagging   | Yes     | Yes         |   |
| 6.11               | Clock uncertainty  | Yes     | Yes         |   |
| 6.12               | Variation of external influence quantities                 | Yes     | Yes         |   |
| 6.13               | Rapid Voltage Changes (RVC)                                | Yes     | Yes         |   |
| 6.14               | Current Magnitude  | Yes     | Yes         |   |
| 6.15               | Current Harmonics  | Yes     | Yes         |   |
| 6.16               | Current Interharmonics                                     | Yes     | Yes         |   |
| 6.17               | Current unbalance  | Yes     | Yes         |   |

The tests are performed in accordance with IEC 62586-2 edition 2 (CDV)

## Characteristics of the measuring instrument

In Table 2 the general characteristics of the measuring instrument are presented.

**Table 2 General characteristics**

|                           |   |
|---------------------------|---|
| $U_{\text{din}}$          | 230 V   |
| $U_{\text{max}}$          | 600 V <sub>LN</sub>   |
| $I_{\text{nom}}$          | 5 A (Nominal current used for testing)  |
| $I_{\text{max}}$          | 12,5 A  |
| $f_{\text{nom}}$          | 50 Hz and 60 Hz   |
| Temperature               | Rated range of operation: -10°C to +55°C  |
| Power supply range        | VAC: 80 ... 276 V      VDC: 70 ... 300 V  |
| Software version          | FW : 1.05 (PQ relevant FW)<br>TFT: 1.05 (User interface)<br>OS : 1.03 (Linux based communication interface) |
| Hardware version          | A   |
| Environmental application | Fixed (F), Indoor (I)   |