

EHC



Flicker, voltage fluctuations and harmonics meter IFG 20.1M-1

DATASHEET

Petrozavodsk

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1 Product Features

- 2.2 Flicker, voltage fluctuations and harmonics meter IFG 20.1M-1 is manufactured in compliance with GOST 30804.3.2-2013 (IEC 61000-3-2:2009), GOST 30804.3.3-2013 (IEC 61000-3-3:2008), GOST R 51317.4.15-2012 (IEC 61000-4-15:2010) and designed for:
- short-term flicker indicator measurement, Pst;
- long-term flicker indicator measurement, Plt;
- measurement of relative voltage deviation, d(t);
- maximum absolute voltage change measurement, dmax;
- measurement of current harmonic components consumed by the equipment from the mains;
- measurement of the current consumed by the tested equipment, I(t);
- tested equipment input voltage measurement, U(t);
- tested equipment power measurement, P(t);
- generation of stable 220 V; 50 Hz AC to power the tested equipment.

1.2. Area of application: technical, research and other tests under laboratory conditions for electrical and electronic equipment powered by 220 V, 50 Hz mains supply to comply with the requirements of:

- GOST 30804.3.2-2013 (IEC 61000-3-2:2009);
- GOST 30804.3.3-2013 (IEC 61000-3-3:2008);



2 Technical Specifications

| Power | source | | |
|--|--|--|--|
| Output voltage AC | 220 V | | |
| Frequency | 50 Hz | | |
| Maximum current | 20 A | | |
| Compliance with requirements | GOST 30804.3.2-2013 (IEC 61000-3- 2:2009); GOST 30804.3.3-2013 (IEC 61000-3- 3:2008); | | |
| Flicker a | analysis | | |
| Compliance | GOST 30804.3.3-2013 (IEC 61000-3- 3:2008) GOST R 51317.4.15-2012 (IEC 61000-4-15:2010) | | |
| Measurements | d_{max} , d_c , $d(t)$, P_{st} , P_{lt} , P_{inst} | | |
| Flicker impedance (built-in) Line | 0,24 ohm+j0,15 ohm | | |
| Flicker impedance (built-in) Neutral | 0,16 ohm+j0,10 ohm | | |
| Voltage rating | 3-260 V | | |
| Current rating | 0,05-20 A | | |
| Voltage fluctuation range | 20% max | | |
| Accuracy P _{st} , P _{lt} | Better 5% | | |
| Harmonics | s analysis | | |
| Compliance | GOST 30804.3.2-2013 (IEC 61000-3- 2:2009) | | |
| Measurements | 1st40 th harmonics | | |
| Measurements window | Rectangular window with 16 periods | | |
| Algorithm | FFT | | |
| Voltage rating 3-260 V | | | |
| Current rating | 0,05-20 A | | |
| Gen | eral | | |
| Interface | USB | | |
| Power supply | 187-242V, 45-55 Hz | | |
| Dimensions (HxWxD) 600x520×340 mm | | | |
| Weight 30 kg | | | |



3 Packing Contents

| | Item | Name | Quantit |
|----|---|----------------|---------|
| | | | У |
| 1. | Flicker, voltage fluctuations and harmonics meter | IFG 20.1M-1 | 1 unit |
| 2. | Manual | | 1 unit |
| 3. | Laptop | | 1 unit |
| 4. | Printer | Purchased Part | 1 unit |
| 5. | Power outlet | | 1 unit |
| 6. | ' 20 A' outlet plug | | 1 unit |

4 Warranty Obligations

4.1. The manufacturer shall provide warranty service for the meter over 24 months after work acceptance is made in accordance with the contract.

4.2. The warranty obligations shall not apply to equipment with clear mechanical or other damage caused by malfunctioning, mistreatment or accidents. The warranty period ends if the repair is made by the Customer or any third party.

