







HIG97

- HIG97 is a very durable series of insulation monitoring devices for industrial isolated systems (IT systems).
- They are designed for monitoring the insulation resistance on systems with a high incidence of industrial interference (higher harmonic).
- They are characterized by an extremely fast response to insulation failure. Fault of insulation resistance is detected within 80 ms.
- They can be connected to the IT systems up to 3 x 1200 V, using a TL 1200 couppling device.
- IMDs are designed with independent power supply. That means that these insulation monitors can be powered from a different system than the one they measure. This has the significant effect that the IMDs are able to measure even de-energized system.
- HIG97 is equipped with a non-flammable measuring circuit, so it is suitable for environments with a risk of explosion (installation in a solid enclosure).

Туре		HIG97
Monitored IT power supply system type according to IEC 61557-8		AC
Measuring range of insulation resistance	R_{F}	5 ÷ 900 kΩ
Adjustable range of critical insulation resistance	R _{an}	5 ÷ 300 kΩ
Number of insulation resistance fault levels (R _{an})		2
Rated voltage of monitored IT system (AC)	Un	230 V
IMD power supply		From measured IT system, From independent power source
Nominal supply voltage AC	U_s	90 ÷ 265 V
Nominal supply voltage DC	Us	120 ÷ 370 V
Power consumption	Р	5 VA
Measuring voltage	U_m	18 V
Measuring current	I _m	< 0.48 mA
Measuring input's internal impedance	Z_{i}	> 100 kΩ
Measuring accuracy		± 10 %
Electrical strength against internal circuits		3 750 V
Equipped with display		Yes (OLED technology)
Supported module of distant signalisation (MDS)		MDS-D, MDS-DELTA
Communication interface for user		RS485 bus
Communication protocol		ISOLGUARD, PROFIBUS
Housing material		Polyamid PA6, UL94 V-0
Degree of protection of front panel		IP40
Degree of protection except the front panel		IP20
Operating temperature	Э	-10 ÷ 60 °C
Protection class according to IEC 61140		II
Recommended cross-section of connected conductors	S	1 mm ²
Installation		On DIN rail 35 mm
Modular width		4 TE
Operating position		Any

Insulation Monitoring Devices for AC systems



Туре		HIG97
Operation type		Permanent
Designed according to standards		
Insulation monitoring devices for IT systems		IEC 61557-8:2014
Equipment for testing, measuring or monitoring of protective measures		IEC 61557-1:2007
Insulation coordination for equipment within low-voltage systems		IEC 60664-1:2007
Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"		IEC 60079-11:2011
Application standards		
Low-voltage electrical installations - Protection against electric shock		HD 60364-4-41:2017
Ordering, packaging and additional data		
Mass	m	285 g
Mass (including the packaging)	m	313 g
Packaging dimensions (H x W x D)		74 x 112 x 73 mm
Packaging value	V	0.61 dm ³
Customs tariff no.		90303370
EAN code		8590681709368
Art. number		70 936



The link in the QR code leads to the online presentation of the **HIG97**. There, in addition to the always up-to-date data sheet, you will also find all diagrams and drawings, declarations of conformity, or 2D or 3D models and other necessary materials. For more information, visit **www.hakel.com**

