







HIG92

- The HIG91, HIG92, HIG93, and HIG94 series are a series of insulation monitoring devices for industrial isolated systems (IT systems).
- The maximum operating voltage of the IT system is 275 V AC. This voltage can be increased up to 6 kV when using coupling devices from the TL series.
- IMD with one R_{an} error level (HIG91, HIG92 series) or monitors with two error levels (HIG93, HIG94 series) are available.
- As standard, the IMD measure Rf in the range of $5~k\Omega$ to $900~k\Omega$ (HIG91, HIG93 series), alternatively in the range of $200~k\Omega$ to $5~M\Omega$ (HIG92, HIG94). Special IMDs are also available for different measuring ranges of insulation resistance.
- IMDs are equipped with digital processing of the measured signal, which offers the user numerical information about the measured insulation resistance.

- 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.
- The power supply of the device is AC as standard, for a nominal voltage of 230 V to 110 V / 50 Hz. However, versions with a 24 V DC supply are also available.
- All IMDs are equipped with a digital bus, which allows information to be transmitted to the master system. For signaling of the IMD status, panels from the MDS-D series can also be used (variant with RS485).

Туре		HIG92
Monitored IT power supply system type according to IEC 61557-8		AC
Measuring range of insulation resistance	R_{F}	$200 \div 5~000~k\Omega$
Adjustable range of critical insulation resistance	R_{an}	200 ÷ 900 kΩ
Number of insulation resistance fault levels (R _{an})		1
Rated voltage of monitored IT system (AC)	Un	275 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	U_s	90 ÷ 370 V
Power consumption	Р	5 VA
Measuring voltage	U _m	12 V
Measuring current	I _m	< 0.6 mA
Measuring input's internal impedance	Z_{i}	> 2 000 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, MDS10
Communication interface for user		RS485 bus
Communication protocol		ISOLGUARD, PROFIBUS
External control inputs		Test start
Housing material		Polyamid PA6, UL94 V-0
Degree of protection of front panel		IP40
Degree of protection except the front panel		IP20

Insulation Monitoring Devices for AC systems



Туре		HIG92
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		2 TE
Use for traction		No
Operating position		Any
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
Application standards		
Low-voltage electrical installations - Protection against electric shock		HD 60364-4-41:2017
Ordering, packaging and additional data		
Mass	m	149 g
Mass (including the packaging)	m	163 g
Packaging dimensions (H x W x D)		45 x 102 x 74 mm
Packaging value	V	0.34 dm ³
Customs tariff no.		90303370
EAN code		8590681709139
Art. number		70 913



The link in the QR code leads to the online presentation of the **HIG92**. 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**

