

ISOLGUARD insulation monitoring device HIG24VDC

The insulation monitoring device ISOLGUARD HIG24VDC produced by HAKEL is designed for monitoring the insulation status of direct current IT power supply systems with a nominal voltage of 24V DC. The device continuously monitors the insulation state of the positive and negative output of an insulation power supply system against the base point. For stationary devices it is usually PE conductor. The potential free switching contact of the signalization relay FAULT will switch during the insulation resistance decrease of + or – output. A fault is also indicated by LEDs on the front panel.

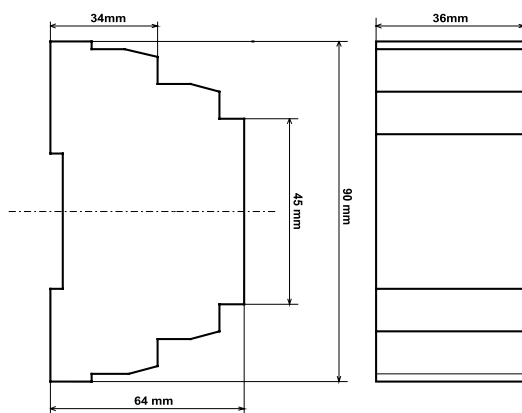
The insulation monitoring device is equipped to display the numeric values of the measured insulation resistance. The measured resistance value of the positive and negative output of a controlled network is displayed on the device's screen. There are buttons for setting the parameters of the insulation monitoring device and signalling LEDs to display the status of the controlled network and the device itself.

It is possible to connect the insulation monitoring device to the panel MDS-D equipped with a touchscreen by means of the RS485 busbar. The MDS-D panel displays the actual measured values and the actual insulation monitoring device setting.

HIG24VDC can communicate with the master computer through an industrial RS485 bus-bar with the protocol derived from the PROFIBUS protocol.

Only one insulation monitoring device can be connected to the same ungrounded IT power supply system.

Type	Display Menu	Signalling relay	Range of displayed value	Critical insulation resistance	RS485	Version SW
HIG24VDC	Yes	2 relays 1P	5 kΩ ÷ 990 kΩ	Adjustable 5 kΩ ÷ 300 kΩ	Yes	V1.4
Art. number 70 933						



Basic characteristics

- The monitor for insulating statuses of DC networks with the voltage 24V DC
- Displaying the measured values of the positive and negative output of a controlled network on the device's screen
- Signalling relay of the status of the insulating resistance with the switching contact
- Signalling relay of the insulation monitoring device function with the switching contact
- Optional memory of the alarm called with the option to unblock with the button on the insulation monitoring device
- Connection to the RS485 bus-bar, insulation strength 2500 V against internal circuits and network circuits
- Option to set the critical values, hysteresis values and other parameters using the insulation monitoring device buttons
- Access to setting the insulation monitoring device by button can be locked, the insulation monitoring device is unlocked by a combination of buttons
- Module for assembly on the DIN 35 rail with the total width 2M (36mm).