

HAKEL ISOLGUARD MDS-D

Remote signalling module with display (MDS-D and MDS-D / IP66) of the ISOLGUARD series, is a device equipped with a touch screen displaying the status of insulated IT power supply systems, monitored by insulation monitoring devices HIG9x made by HAKEL. Communication is done via RS485 line.

MDS-D panel also offers another line RS485 (*External bus*), which is used to transfer actual data to the superior user system. Communication on this line is done by telegrams based on Profibus protocol. Description of this protocol is available to the user.

MDS-D devices are primarily designed for supervising and monitoring workplaces requiring continuous displaying of the status of IT power supply systems monitored by insulation monitoring devices type HIG9x/485.



Remote signalling panel, type MDS-D

Remote signalling panels, type ISOLGUARD MDS-D

Device	Display	Controls	Fault and incident signalling	Transferring data to a superior system	Degree of protection
MDS-D catalogue no. 70060	4.3" LCD	By touch, Resistance layer	Visual and audio	Yes, by using additional line RS485 (<i>External bus</i>)	IP20
MDS-D/IP66 catalogue no. 70061					IP66

Panel ISOLGUARD MDS-D is designed to comply with requirements of CSN EN 61557-8 and it is used for IT power supply system fault signalling, monitored by insulation monitoring devices *ISOLGUARD* HIG9x.

Basic characteristics of MDS-D panel

- Simultaneously displays status of up to 24 IT power supply systems monitored by insulation monitoring devices HIG9x with RS485 line
- Assignment of names to insulation monitoring devices for easy identification
- Two variations of the MDS-D panel based on the final location of the panel
- Fault and incident audio and visual signalling
- Display of currently measured values by insulation monitoring devices HIG9x/485
- Touchscreen control
- Easy installation
- Czech language menu
- Degree of protection up to IP66
- Automatic search for insulation monitoring devices connected to bus
- External bus RS485 designed for communication with superior system
- Option to remote test each connected insulation monitoring device
- Clear display of detail configuration parameters of insulation monitoring devices
- Password protected access to panel setting

MDS-D technical data

Type		MDS-D	MDS-D/IP66
Supply voltage	U_n	9 ÷ 36 V DC	
Power use	P	max. 2 VA	
Control method		Touch screen control - resistance touch screen layer	
Number of displayed devices		1 ÷ 24	
Displayable devices		ISOLGUARD HIG9x designed with communication line RS485 in any combination	
Lockable settings		Yes, four-digit PIN may be set to protect access to advance panel function settings	
Outputs			
Fault visual signalling		Display colour change, flashing	
Fault audio signalling		Acoustic siren	
Termination of fault signalling		By touch screen	
Option to carry out a remote test of the connected insulation monitoring device		After unlocking, advance function setting using PIN	
Transfer of data to a superior system		Via external bus	
External bus			
Bus type		RS485, MASTER-SLAVE type	
Transfer speed		9600Bd	
Parity		Even	
MDS-D panel position on line		Slave	
Default address of MDS-D panel on line		1	
Insulation strength against internal circuits and IT power supply circuits		2500 V ef	
Installation			
Installation method		To electrical installation box KU68	Anchors / Self-cutting screws
Typical application		Nurse room, monitoring station	Operating room
Terminals used to connect wires		Spring terminals	
Cross-sections of solid connected wires/cables	S	0.2 ÷ 0.75 mm ²	
Cross-sections of flexible connected wires	S	0.25 ÷ 0.34 mm ²	
Recommended wire cross-sections	S	Solid wire 0.5 mm ²	
Recommended wire type		STP / UTP	
General data			
Degree of protection per EN 60 529		IP20	IP66
Weight	m	170 g	500 g
Catalogue No.		70060	70061

Product dimensions

