

ISOM K-20

Insulation monitoring device

for power networks or control/command circuits





Function

The ISOM K-20 insulation monitoring device monitors the insulation level of standalone power networks in an IT neutral arrangement. It is also designed for monitoring control-command networks.

Advantages

Intuitive interface

display and a dedicated "Quick-Access" button for fast and easy navigation between the main operating screens.

Recess-mounted box

Because of the product's housing design, you can recess-mount the device or modularly integrate it on a DIN rail.

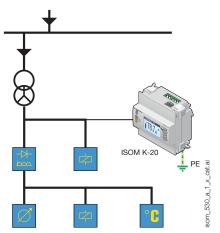
Applications

These IMDs can be used for multiple applications:

- Universal use in industry
- Monitoring standalone AC, DC and combined networks (up to 30 μF of leakage)

The ISOM K-20 is intended for circuits where the signalling of continuous symmetrical faults is essential and is suitable for AC and DC control circuits.

Note: In accordance with IEC 61557-8 and EN 61557-8, the use of IMDs capable of detecting symmetrical defects is mandatory for low-voltage DC circuits (> 120 VDC regular or 140 VDC peak).



Typical monitored loads: rectifiers, relays, sensors and probes.

The solution for

- > Industries
- > Energy production
- > Infrastructures



Strong points

- > Intuitive interface
- > Recess-mounted box

Conformity to standards

> IEC 61557-8



> ISO 14025



Even more functionality



- > RS485 MODBUS communication
- > Alert log
- > Current input and temperature monitoring

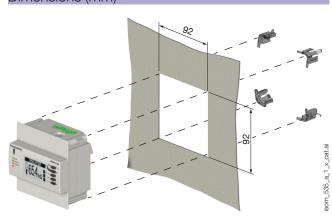


Front panel

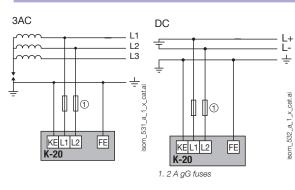


- 1. USB port for configuration.
- 2. ON indicator. Lights up when the device is active.
- 3. ALARM 1 and 2 indicators. Light up when the preset thresholds for Alert 1 or Alert 2 are reached.
- 4. Backlit graphic display.
- 5. TEST/RESET button. Starts the autotest (long press) and resets alerts (short press).
- 6. Quick-Access button (short press) HOME to main menu (long press).
- 7. Hotkeys.
- 8. OK buttons (short press) Back (long press).

Dimensions (mm)



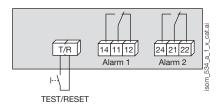
Terminals and connections





L1 - L2: network voltage U_n
KE - FE: earthing connection

L/+ - N/-: auxiliary power supply U_s
AC power supply: 1 A gG fuses
DC power supply: T1AH300VDC fuses



T/R: external TEST/RESET
12 - 11 - 14: alarm relay output 1
22 - 21 - 24: alarm relay output 2

Characteristics

C 24 to 480 V C 24 to 240 V C 50 to 460 Hz			
C 24 to 240 V C 50 to 460 Hz			
C 50 to 460 Hz			
30 V			
per reference			
10 VA			
Fault alerts			
ljustable			
<Ω to 1 MΩ			
μF			

Inputs		
External TEST/RESET	2-wire inputs	
Output contacts		
Number of contacts	2	
Contact type	Changeover switch	
AC nominal voltage	230 V	
DC nominal voltage	30 V	
Steady-state current	3 A	
Operating mode	Standby / On	
Preset operating mode	Standby	
Operating conditions		
Operating temperature	-10 to +55 °C	
Storage temperature	-40 to +85 °C	
Relative humidity	95% at 55 °C	

References

ISOM Digiware	Network voltage U _n	Auxiliary power supply U _s	Alert threshold	Reference
K-20 AC	AC 24 to 480 V / DC 24 to 240 V	AC 110-230 V 50-60 Hz / DC 120-240 V	1 to 1,000 KΩ	4725 0110
K-20 DC	AC 24 to 480 V / DC 24 to 240 V	24 VDC ⁽¹⁾	1 to 1,000 KΩ	4725 0111

⁽¹⁾ Power supply separate from the monitored network.

Accessories	Available for order in multiples of	Reference
Fuse circuit breakers to protect auxiliary and mains power supplies (type RM) 2-pole	4	5701 0020
gG 10x38 1 A fuses	10	6012 0001
aG 10x38 2 A fuses	10	6012 0002