

ISOM K-40h / ISOM D-15h

Insulation monitoring device

for medical locations







Function

The **ISOM K-40h** insulation monitoring device monitors the insulation level in medical facilities. It can also indicate an overload (single-phase network) and an overheating of the IT medical transformer.

Advantages

Alarm log

The device records and timestamps active or finished alarms and events.

Quick Access button

The device has a dedicated button to quickly and easily navigate between the main operating screens.

Current monitoring

The device has an RJ12 current sensor input to monitor the load of the single-phase network.

Temperature monitoring

The device has a temperature monitoring function (generates an alarm if the threshold is exceeded).

Modbus communication

The device has an RS485 connection with Modbus protocol.

ISOM D-15h alarm report

It displays alarms in case of insulation fault, overheating and overload of the medical IT transformer measured by the ISOM K-40h IMD.

The solution for

- > Operating rooms
- > Anaesthesia rooms
- > Recovery rooms
- > Invasive imaging rooms



Strong points

- > Alarm log
- > Quick Access button
- Current monitoring
- > Temperature monitoring
- > Modbus communication
- > ISOM D-15h alarm report

Conformity to standards

> CEI 61557-8 annexe A



> ISO 14025



Applications

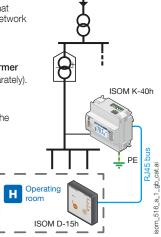
Monitoring the insulation of medical facilities

Measures the insulation level of single-phase medical IT networks that may contain DC powered parts, galvanically connected to the AC network (e.g. electronic devices, TV monitors). It automatically adapts to the leakage capacitance (maximum 5 μ F).

Monitoring the operating load current of the medical IT transformer Carried out via Digiware TE, TR or TF current sensors (ordered separately).

Monitoring the temperature of the medical IT transformer

Monitoring via a PTC or integrated Clickson temperature sensor in the transformer (ordered separately).





ISOM K-40h / ISOM D-15h

Insulation monitoring device for medical locations

Front panel

ISOM K-40h



1. USB port for configuration.

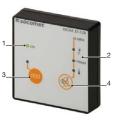
- ON LED. Lights when the device is active.
 ALARM 1 LED. Lights if the medical IT transformer overloads or overheats. ALARM 2 LED. Lights if the insulation threshold is exceeded.
- insulation threshold is exceeded.4. COM LED. Flashes when the communication bus is active.
- ⁸ 5. Backlit graphic display.
 - 6. TEST/RESET. Runs the autotest (long press) and resets alerts (short press).
 - Quick-Access button (short press) HOME to main menu (long press).



Cat

484x_a_2

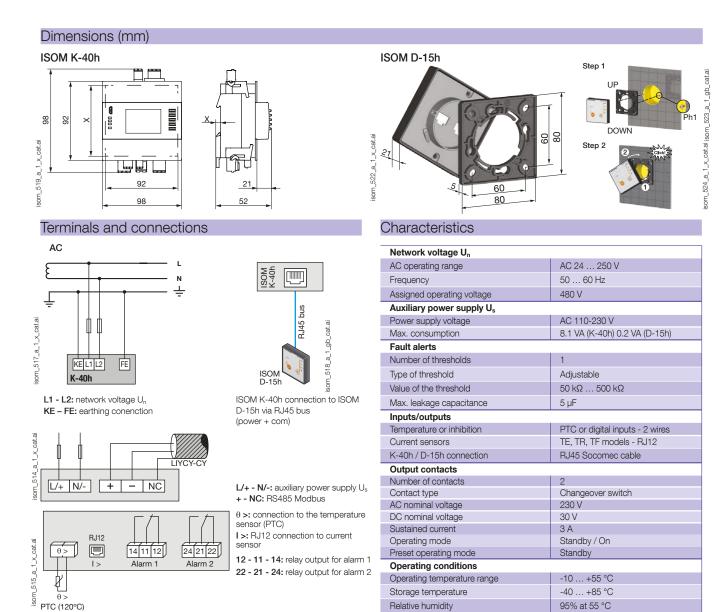
SOT



- ON LED. Lights when the device is active.
 LED signals:
 - Lights up if the medical IT transformer overheats.
 - >Imax lights up during an overload
 - $\frac{1}{4}$ lights if the insulation threshold is exceeded.
- TEST button, the LED flashes during the test.
 Buzzer Stop button.

8. Hotkeys.

9. OK buttons (short press) – Back (long press).



References

	r			
ISOM Digiware		Auxiliary power supply U _s	Alarm threshold	Reference
K-40h	AC 24 250 V	AC 110-230 V	50-500 kΩ	4725 0122

_		
	Accessories	Reference
	ISOM D-15h alarm report indicator	4729 0200
	TE current sensors (not TE-90), TR or TF	
	PTC temperature sensor	4729 0560



361