

ETK ES Insulation panel for IT system

GENERAL INFORMATION

The **IT system insulation board** provides a protected insulated power supply system, for surgical units and other critical care areas, designated as locations for wet procedures.

COMPONENTS

Automatic switch
Isolation transformer for medical use
Transformer protection
Insulation monitor
Line insulation fault detector
General ground busbar
Circuit breakers

TECHNICAL DATA

ELECTRICAL CHARACTERISTICS

Input voltage	400V~ 3N 230V~
Output voltage	230V~ 230V~
Phases	Three phase Single phase
Frequency	50-60Hz
Power	3 to 10kVA

AUTOMATIC SWITCH

Blackout	< 90ms
Modbus connection	optional
Manual bypass element	optional

ISOLATION TRANSFORMER

Voltage	230/400V~
Frequency	50-60Hz
Safety class	Class I
Leak current	< 0,5 mA
Power	3,15 a 10 kVA
Insulating class	F (155°C)
No load current	< 3%
Insulation resistance	7 MΩ

INSULATION MONITOR

Power supply	AC 84...264V~
Frequency	47-63 Hz
Safety class	Class I
Fault locator	AC/DC
Classification	MED
Monitored alarms	Ground wire connection failure Insulation leak Temperature in the isolation transformer Isolation transformer overcurrent Communication failure

FORCED VENTILATION

Max flow	150 170 m3/h
Power consumption	19 22W

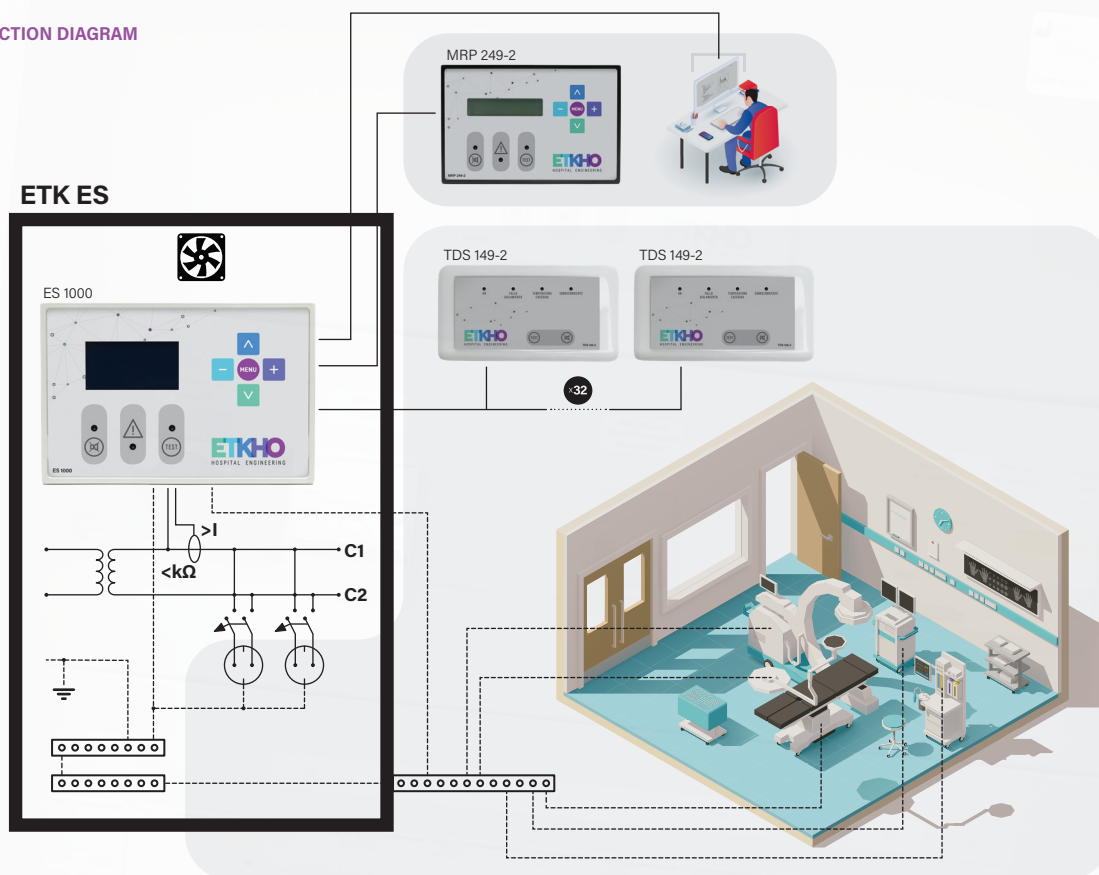
TEMPERATURE SENSOR

Precision	± 1%
Range	0° - 150°C



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CONNECTION DIAGRAM



ACCESSORIES

Temperature sensor

PT 340

COMPATIBLE EQUIPMENT

AC Insulation Monitor	ES 1000
Alarm repeater	TDS 149-2
Multi repeater	MRP 249-2
Line insulation fault locator	TDS 449
SCADA Management	TDS 500-2

COMMUNICATION

Remote communication with independent web server integrated into general building management systems.

REGULATIONS

EN 61439-1
EN 61439-2
IEC 60364-7-710
BS7671
HTM 06-01

