

INSULATION MONITORING DEVICES

MEDICAL SERIES

EDS 30 | IMD 30 | CTS 30 | LAP 70 | RAI 70



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MEDICAL SERIES

LAP 70 Local Alarm Panel

LAP 70 Local Alarm Panel indicates alarms like insulation fault, overcurrent, transformer over temperature visually and audibly that are detected by the IMD 30 insulation monitoring device and stores each event with their timestamp.



Standards

- IEC 60364-7-710

Advantages

- Up to 32 supported insulation fault monitoring device
- It can store up to 150 event records thanks to its internal clock
- Remote insulation test and fault contact outputs

Applications Areas

- Operating rooms
- Intensive care rooms

Teknik Özellikler	
Brand	Aktif
Model	LAP70
Supply Voltage	24V AC/DC
Frequency	50/60 Hz
Warnings	Insulation fault Over current Over temperature
Fault Relay Types	NO, NC
Number of Event Logs	150
Communication Protocol	Modbus RTU
Cable Length	< 1000 m
Operating Temperature	-5 °C ... +55 °C
Standards	IEC 60364-7-710

RAI 70 Remote Alarm Indicator

RAI 70 Remote Alarm Indicator monitors all alarms and events of the whole Isolated Power System and displays them on its LCD and LEDs as well as creating audible alarms.



Standards

- IEC 60364-7-710

Advantages

- Remotely monitor all alarm information detected by the Isolated power system
- Up to 32 supported insulation fault monitoring device
- Remote insulation test and fault contact outputs

Applications Areas

- Operating rooms
- Intensive care rooms

Teknik Özellikler	
Brand	Aktif
Model	RAI 70
Supply Voltage	24V AC/DC
Frequency	50/60 Hz
Warnings	Insulation fault Over current Over temperature
Fault Relay Types	NO, NC
Visual Warning	LEDs Graphic LCD Display
Number of Event Logs	150
Communication Protocol	Modbus RTU
Cable Length	< 1000 m
Operating Temperature	-5 °C ... +55 °C
Standards	IEC 60364-7-710

CTS 30 Changeover Module

CTS 30 Changeover Module is the equipment that enables to select the convenient one between two different sources feeding the isolated power panel and transfer it to the output.

Standards

- IEC 60947-6-1
- IEC 60364-7-710

Advantages

- Transfer Time: 40 ms
- Communicates with the Remote Alarm Indicator and the Local Alarm Panel with the Modbus RTU protocol.

Applications Areas

- Operating rooms
- Intensive care rooms



Teknik Özellikler	
Brand	Aktif
Model	CTS 30
Supply Voltage	220V AC
Frequency	50/60 Hz
Transfer Time	≤ 40 ms
Alarms	Source fault
Visual Warning	LEDs
Fault Relay Types	NO, NC
Communication Protocol	Modbus RTU
Cable Length	< 1000 m
Operating Temperature	-5 °C ... +55 °C
Standards	IEC 60947-6-1 IEC 60364-7-710

EDS 30 Insulation Fault Location Device

EDS 30 Insulation Fault Location Device is designed to detect the location of insulation fault in IT systems. The fault location device EDS 30 communicates with the Insulation Monitoring Device (IMD30) with the ModBus RTU protocol and determines which line the fault originates from in a very short time. It continuously scans its 6 current transformers and if a leakage is detected the alarm LED of the faulty channel lights up. Alarm details are displayed on the Local Alarm Panel and the Remote Alarm Indicator.

Standards

- IEC 61557-8
- IEC 60364-7-710

Advantages

- Elegant designed to detect the location of insulation fault in IT systems.
- Number of channels: 6
- Remote insulation test and fault contact outputs

Applications Areas

- Operating rooms
- Intensive care rooms



Teknik Özellikler	
Brand	Aktif
Model	EDS 30
Supply Voltage	24V AC/DC
Frequency	50/60 Hz
Number of Channels	6
Visual Warning	LEDs
Response Value	<0,5 mA
Response Time	<2 sn
Communication Protocol	Modbus RTU
Cable Length	< 1000 m
Operating Temperature	-5 °C ... +55 °C
Standards	IEC 61557-8 IEC 60364-7-710

IMD 30 Insulation Monitoring

Insulation Monitoring devices are one of the most important equipment of IT Systems. It detects insulation fault in the system by constantly checking the insulation resistance level between phases and earth. At the same time, it controls the load current and the temperature of the isolation transformer in accordance with the IEC 60364-7-710 standard and ensures that the warning system is started when it reaches critical values.



Standards

- IEC 61557-9
- IEC 61557-8
- IEC 60364-7-710

Advantages

- High measurement resolution
- Low measurement uncertainty
- Wide measurement range

Applications Areas

- Operating rooms
- Intensive care rooms

Technical Specifications

Brand	Aktif
Model	IMD 30
Supply Voltage	24V AC/DC
Frequency	50/60 Hz
Internal Resistance	$\geq 240 \text{ k}\Omega$
Insulation Measurement Range	50 k Ω ... 750 k Ω
Insulation Measurement Resolution	$\leq 1 \text{ k}\Omega$
Insulation Measurement Uncertainty	$\leq 3\%$
Response Time	$\leq 2\text{sn}$
Current Measurement Range	0-50 A

Current Measurement Resolution	0,1 A
Temperature Sensor Types	NTC PTC Thermistor
Max. Supported Fault Detection Devices	4
Alarms	Insulation Fault Over Current Over Temperature
Fault Relay Types	NO,NC
Visual Warning	LEDs, LCD Display
Communication Protocol	Modbus RTU
Cable Length	<1000 m
Operating Temperature	-5°C ... +55°C