



INFOMIPS MEDICAL ISOLATION PANELS

ISOLATION POWER SYSTEMS

INFOMIPS ISOLATION POWER SYSTEMS WITH TRANSFER UNIT

Isolation power panels with transfer units are designed with double source inputs. The transfer unit monitors the priority selected source continuously and directs the output to the 2nd source in cases such as power cuts and voltage out of the set values. In case the priority source returns to nominal values, the output continues to be operated from the 1st source again. It is produced with 20xB16 Line as standard. Special designs can be made in line numbers and amperage values.

TECHNICAL SPECIFICATIONS

- Patient and doctor life safety
- Automatic transfer changeover system
- Transfer time under 100ms
- 10 kVA isolation power transformer
- Isolation monitoring device
- LCD screen
- 20pcs 2x16A B-Type line outputs
- 0-43A load current
- Transformer temperature value monitoring
- Load current monitoring
- Remote monitoring with local and central alarm panels
- Multi-device communication possibility
- RS485 Mod-Bus / TCP-IP Mod-Bus communication



ISOLATION POWER SYSTEMS

INFOMIPS ISOLATION POWER SYSTEMS WITH TRANSFER UNIT AND ISOLATION ERROR DETECTION SYSTEM

In addition to isolation power panels with transfer units, a line monitoring system is included. All output lines are monitored separately via torodial current transformers. Isolation leakage is detected on a line basis. Due to the 6 toroidal current transformers, the panels are produced with 12, 18 and 24 lines.

TECHNICAL SPECIFICATIONS

- Patient and doctor life safety
- Automatic transfer changeover system
- Transfer time under 100ms
- 10 kVA isolation power transformer
- Isolation monitoring device
- Error detection system
- Line-based isolation leakage monitoring
- LCD screen
- 12/18/24 pcs 2x16A B type line output
- 0-43A load current
- Transformer temperature value tracking
- Load current monitoring
- Remote monitoring with local and central alarm panels
- Multi-device communication possibility
- RS485 Mod-Bus / TCP-IP Mod-Bus communication



ISOLATION POWER SYSTEMS

GTFD SERIES ISOLATION TRANSFORMER

Transformer providing the necessary isolation for Group – 2 fields in the hospital.

Standards:

IEC 61558-2-15

IEC 60364-7-710

- The feeding location is separated from the grounding system.
- Single-phase, 230 VAC
- No-load current $I_0 < 3\%$
- Short circuit voltage $U_k < 3\%$



THE TECHNICAL SPECIFICATIONS

Nominal Power	10kVA
Nominal Frequency	50 ... 60 Hz
Input Voltage	230 VAC
Output Voltage Ph-N	230Vac
Input/Output Current	44.7A / 43.4A
Current Impulse Withstand	12 In
Allowable Leakage Current	< 50 μ A
Inrush Current	< 8 In
Galvanic Isolation	Yes
Isolation Class	H
U_k %	<2.2%
Efficiency	96% >
Temperature at full load	68 °C

ISOLATION POWER SYSTEMS

ISOLATION MONITORING MODULE

It continuously monitors the isolation resistance level and gives an alarm if there is a leakage between the system and the ground. Apart from the isolation level, it constantly monitors the current drawn from the system and the transformer temperature. It can transmit all data as instant value and alarm to local and central alarm panels.



Standards:

IEC 60364-7-710

IEC 61557-8

IEC 61557-9

TECHNICAL SPECIFICATIONS

Model	INFORM IZL-IMM
Operating Voltage	230 VAC
Nominal Current	5A
Supply Voltage	12-24VAC or 15-35VDC
Isolation Resistance Interval	0.1 KOHM - 800KOHM
Frequency	50/60 Hz
Temperature Interval	0-100 °C
Current Interval	0-100 A
Communication	Mod-Bus
Dimensions (mm)	105 x 60 x 94
Protection Class	IP21
Color	RAL 9005/7035
Operating Temperature	0 °C / 50 °C
Storage Temperature	-15 °C / 70 °C

ISOLATION POWER SYSTEMS

TRANSFER MODULE

Transfer Modules are devices that control two contactors and simultaneously monitor Input-Output Voltages and Current Drawn in order to transfer the double line supply to the output without interruption. It can transmit all data as instant value and alarm to local and central alarm panels.



Standards:

IEC 60364-7-710

IEC 60364-5-53

IEC 60947-6-1

TECHNICAL SPECIFICATIONS

- Synchronous / Asynchronous transfer feature
- Source priority selection
- Automatic and manual changeover in case of resource loss
- External manual bypass
- Easy to use menu
- Current distortion level < 1%
- High Efficiency

Model	INFORM IZL-TM
Transfer Time	<10 MS
Nominal Current	15A/20A/25A/32A/40A/50A
Source Voltage	230 VAC
Efficiency	99%
Frequency	50/60 Hz
Input Protection	CLASS B
Alarm Output	1 relay output
Communication	Mod-Bus
Dimensions (mm)	105 x 60 x 94
Protection Class	IP21
Color	RAL 9005/7035
Operating Temperature	0 °C / 50 °C
Storage Temperature	-15 °C / 70 °C

ISOLATION POWER SYSTEMS

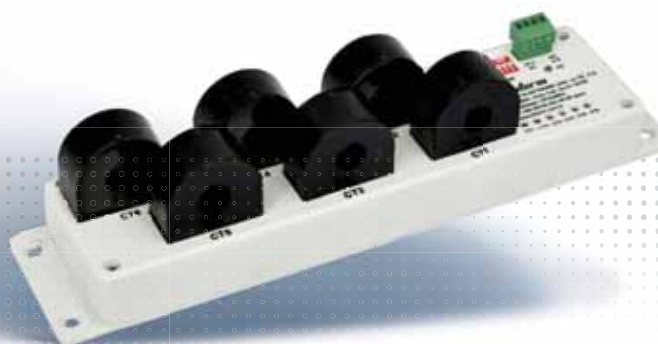
ISOLATION ERROR DETECTION MODULE

It is a system that instantly controls all of the output lines with toroidal current transformers and shows the error on a line basis when there is an isolation error.

Standards:

IEC 60364-7-710

IEC 61869-2



TECHNICAL SPECIFICATIONS

- 6 current transformer modules
- Leak current detection $>50\mu\text{A}$
- Easy addressing
- Operating status led
- Synchronous operation with Transfer module, Isolation monitoring device, Local and Central alarm system
- LED alarm indicator

MODEL	iNFORM IZL-CM6X
Operating Voltage	230 VAC
Nominal Current	15A/20A/25A/32A/40A/50A
Supply Voltage	24VAC or 24VDC
Leakage Current	$>50\mu\text{A}$ AC or DC
Frequency	50/60 Hz
Measuring Range	$25\mu\text{A}$ -5000 μA
Input Protection	Class B
Communication	Mod-Bus
Dimensions (mm)	60 x 230 x 60
Protection Class	IP21
Color	RAL 9003
Operating Temperature	0 °C / 50 °C
Operating Temperature	-15 °C / 70 °C

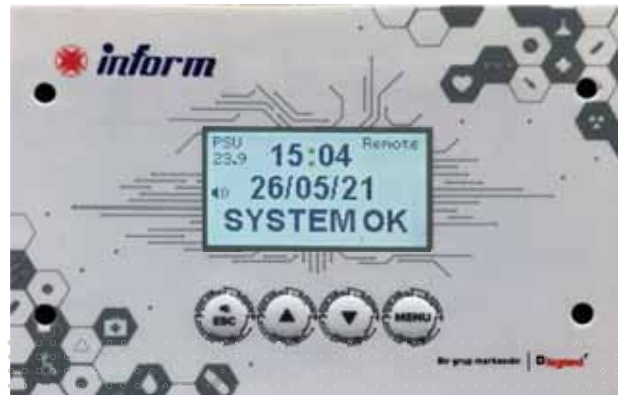
ISOLATION POWER SYSTEMS

LOCAL AND CENTRAL ALARM PANELS

Local Alarm Panels are units that display all the data and alarms of the panel by installing them in the area fed by the isolation panel. From local alarm panels; You can monitor Isolation resistance level and its alarm, Current drawn value and its alarm, Transformer temperature and its alarm, Line-based alarm information from error detection system, Line feeding information, Line1, Line2 and Output voltage information. The whole system communicates with each other via Mod-Bus. The central monitoring panel is used to display the information of all panels in the same group from a single point. It is generally located in the technical staff room.

Standards:

IEC 60364-7-710



TECHNICAL SPECIFICATIONS

- Ability to operate as a local or central alarm panel
- Monitoring up to 16 boards
- Isolation level monitoring
- Current level monitoring
- Temperature monitoring
- Source monitoring
- Line-based error monitoring
- LCD graphic display
- Audible and visual alarm
- Data export with MODBUS and IP

MODEL	INFORM IZL-LAP
Alarm Output	2pcs relay output
Supply Voltage	24VAC or 24VDC
Frequency	50/60 Hz
Input Protection	Class B
Communication	Mod-Bus or IP
Dimensions (mm)	160 x 108 x 73
Protection Class	IP21
Color	RAL 9003
Operating Temperature	0 °C / 50 °C
Storage Temperature	-15 °C / 70 °C

ISOLATION POWER SYSTEMS

21" CENTRAL MONITORING PANEL

The 21" Central Monitoring Panel provides the opportunity to monitor up to 300 panels over the Network. IT panels can be grouped and named as desired. It provides the opportunity to name up to the line outputs. It can transfer all data to the scada system over the network.

- Windows operating System
- 21" infrared touch screen
- Built-in speaker
- Possibility to communicate up to 300 panels
- Possibility to define IP address
- TCP-IP communication protocol



MODEL	INFORM 21"MAP
Screen	21" infrared touchscreen
Supply Voltage	230 VAC
Frequency	50/60 Hz
Alarm	Audible and Visual
Communication	TCP IP
Dimensions (mm)	703 x 135 x 498 (W x D x H)
Protection Class	IP21
Color	RAL 9005
Operating Temperature	0 °C / 50 °C
Storage Temperature	-15 °C / 70 °C



OPERATING ROOM CONTROL PANELS

WILDTOUCH 21" OPERATING ROOM CONTROL PANEL

Operating room control panels are used to control the lighting, operation lamps, negatoscope, etc. units in the room, and to display environmental information such as temperature, humidity, filter pressure, room differential pressure with external sensors to be connected. It has many additional features such as communicating with gas panel and automation system, handsfree phone, music system.



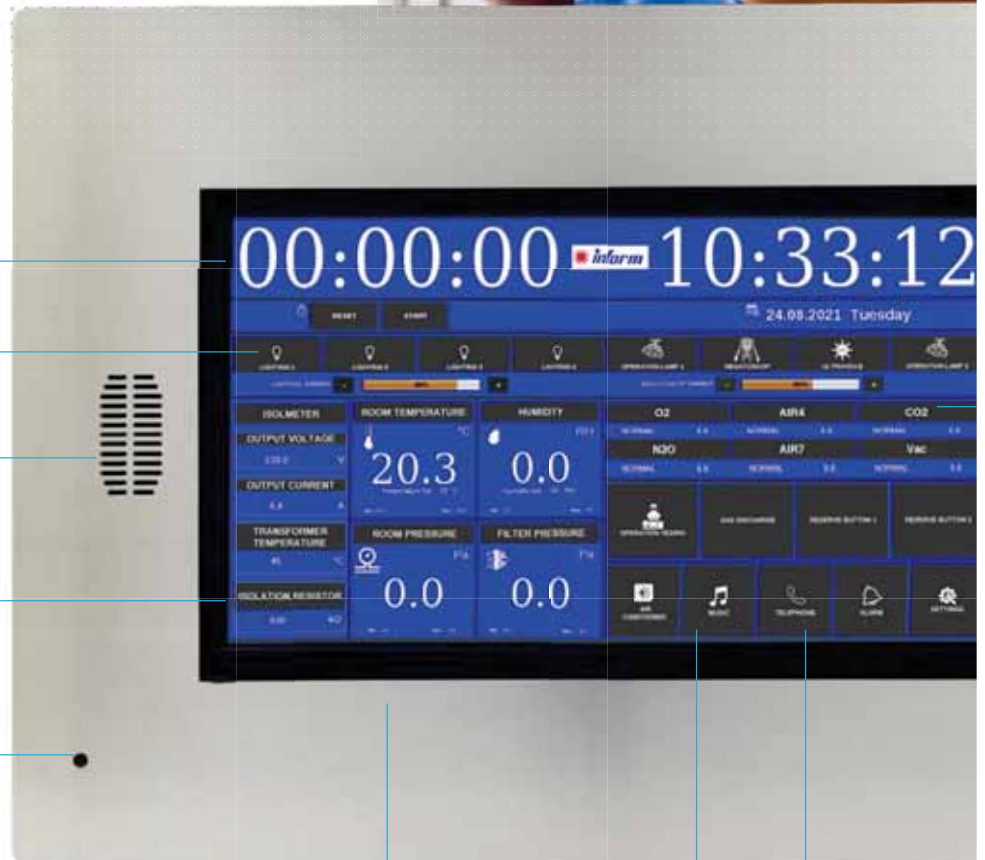
Stopwatch/ Clock

Relay output controls

2 x Internal speakers

Isolation power panel
alarm information

Internal microphone



Temperature / Humidity / Room
differential pressure / Filter pollution
information and set values.

4 Channel
Music
broadcast

Internal
IP phone

TECHNICAL SPECIFICATIONS

- 21" widescreen display
- 4 x Music channels, 2 x internal speakers
- Handsfree internal phone.
- RS485 / TCP-IP communication protocols.
- Clock, Stopwatch and Gas information

on one screen.

- DIN4301 stainless steel front panel.
- Communication with IT panel and Gas panel directly.

Screen	
Screen type	21.5" Infrared touchscreen
Clock	On the main menu
Stopwatch	Touch screen
Inputs	
0-10V analog sensor input	8 Reserved analog inputs
Music input	4 Channels
Temperature / Humidity / Filter pressure / Room pressure	4 Channel analog input
Outputs	
Lighting	4 Channels / (On-Off) - (L1/L2/L3/L3) + Dimmer
Operation lamp	2 Channel / (On-Off)
Negatoscope	1 Channel / (On-Off) + DIMMER
Operating room busy luminaire	1 Channel / (On-Off)
Ultraviolet lamp	1 Channel / (On-Off)
Heater	1 Channel / (On-Off)
Air conditioner (half flow / full flow)	2 Channel / (On-Off)
Gas information	8 Channels
Reserved	8 Reserved analog output
Temperature / Humidity set	2 Analog output
Music	4 Channels
Alarm	(On-Off)
Alarm mute	(On-Off)
Specifications	
Operating system	Linux
Temperature / Humidity / Pressure sensor limit setting	Lower limit / Upper limit setting, buzzer available
Gas discharge outlet	1 Channel / (On-Off)
Internal speaker	Available
Internal microphone	Available
Phone	Internal IP Phone
Measurements	
Temperature	0°C-50° C / 0-10V Analog
Humidity	0%-100% / 0-10V Analog
Room pressure	Pascal / 0 Pa- 100 Pa / 0-10V Analog
Filter pollution level	Pascal / 0 Pa- 100 Pa / 0-10V Analog
Audible alarm	Adjustable
Communication	Mod-Bus(RS485) / TCP-IP
Front panel	DIN4301 (2mm Stainless Steel)
Dimensions	
Dimensions (mm)	703 x 135 x 498 (W x D x H)



● Gas panel
information