HospEC®
Hospital Energy Control

Hospital technology

IPS-ICU Series 710

Complete IT system distributor with integrated insulation fault search system (IFS)

for operating theatres and
intensive care units

ESA ELEKTROSCHALTANLAGEN GRIMMA GmbH

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IPS-ICU Series 710

What does the standard promote – What would you like?

It is imperative according to IEC 60364-7-710 / DIN VDE 0100-710:2002-11 for the IT system to be used in Group 2 medical fields.

This standard continues to lay down the minimum requirements for all components of an IT system for the Group 2 fields.

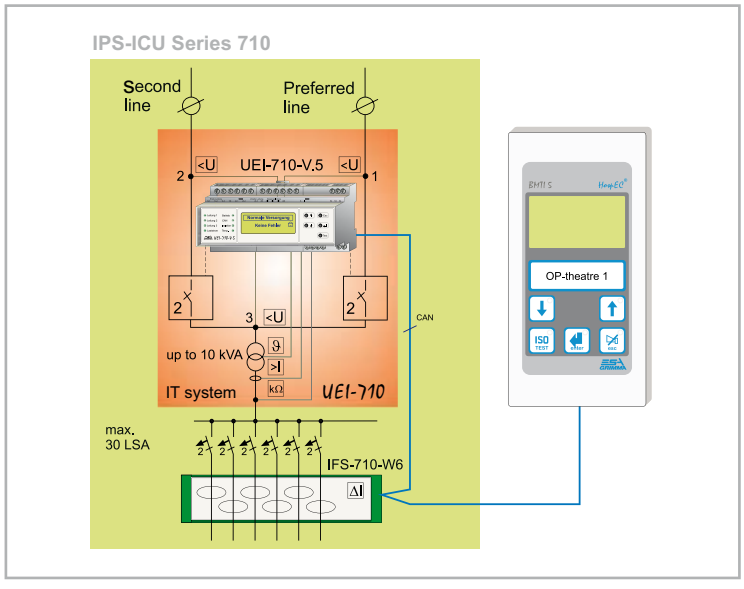
Whilst designers and installers of these kind of systems set great store on minimum spatial component dimensioning, what the operators and their staff want is for their daily work with this technology to be made considerably easier.

Our solution

The IT system distributors of the IPS-ICU type, 710 series provide you with a ready-to-connect distribution cabinet which in terms of its small size as well as user-friendly and extensive functions is hard to beat!

The functionalities especially sought by operators are united in a multifunctional change-over and monitoring device.

The integration alone of the outgoing circuit-related insulation fault search and the „Recurrent Test“ monitoring make things far easier for the user.



Circuit diagram - IT system distributor IPS-ICU Series 710

Fields of use

The IPS-ICU-710 series IT system distributors supply socket outgoing circuits in medically used Group 2 fields such as intensive care units and operating theatres. These fields are in hospitals and surgical units.

Functions and features

- Multifunctional change-over and monitoring device UEI-710-V.5
- Voltage monitoring downstream of the change-over appliance as well as the preferred and second feed
- 100% documentation of malfunctioning
- Monitoring of the „Recurrent Test“
- IT system monitoring (insulation, load, temp.)
- Insulation fault search system (IFS) up to 30 outgoing circuits
- IT transformer (3.15 - 10 kVA)
- 2-pin B16 A automatic cut-off for each outgoing circuit
- Connection for BMTI 5 operating and annunciator terminals (via CAN bus)
- Connection for annunciator and control panels of the FolioTec LCD series or FBT (via CAN bus)
- Ready-to-connect IT system distributor cabinet
- Sheet steel enclosure in keeping with IEC 60364-7-710 / DIN VDE 0100-710:2002-11, Section 710.51.2.2
- Standard-compliant setup
- Voluntary inspection of the entire system by an independent, accredited test laboratory
- Highly compact form
- Short delivery time thanks to the normal distributor

IPS-ICU-710 IT system distributor

Benefits of the IPS-ICU Series 710

- **Small cabinet dimensions with ample connection space** thanks to compact design (H x W x D 2000 x 350 x 400 mm)

- **100% documentation of malfunctioning** from use made of history memory for all operating and fault notifications including date and time
- **Monitoring the Recurrent Test** based on DIN VDE 0100-710:2002-11, Section 710.62 by means of „Silent Alarm“ given test intervals being exceeded (passed on to facility management system by bus system), integrated buffered real time clock (RTC)
- **Plug-in terminals equipped UEI-710-V.5** control and monitoring appliance which is replaceable under operations
- Patented measuring method for **dependable and rapid insulation monitoring**
- **Automatic IT system monitoring** of all internal and external functions

- **Rapid fault search using IFS-710-W6** insulation fault detection devices on the second level

- **Separately enclosed transformer compartment** for optimum thermal conditions

Multifunctional change-over and monitoring device UEI-710-V.5

Insulation fault detection device IFS-710-W6

Complete IT system distributor with integrated insulation fault search system (IFS)

IPS-ICU Series 710

Specifications (extract)

■ Product designation:	IPS-ICU Series 710
■ Operating voltage:	230 V AC, 50...60 Hz
■ Control voltage:	230 V AC, 50...60 Hz
■ Rated power of IT system transformers:	3.15 / 4.0 / 5.0 / 6.3 / 8.0 / 10 kVA
■ Dimensions H x W x D:	2000 x 350 x 400 mm
	H = 2300 mm with 24 or 30 outgoing circuits (LSA) 2-pin
■ Possible No. of outgoing circuits (LSA) 2-pin:	6 / 12 / 18 / 24 / 30
Multi-functional change-over and monitoring appliance UEI-710-V.5	
■ Low voltage setting range:	150...230 V (0.65… 1.0 x Un)
■ High voltage setting range:	230...260 V (1.0… 1.13 x Un)
■ Forward delay tvh (forward operating time):	0...20 s (0.2 s steps)
■ Return delay tvr (return operating time):	0...20 s (0.2 s steps)
■ 230 V insulation monitoring:	AC 50…60 Hz / 85…265 V
■ Response value/hysteresis:	parameterizable 50…250 kΩ / fixed +25%
■ Load current - response value / hysteresis:	Parameterizable 5…50 A / fixed 4%
■ Temperature control:	120°C (using opener or PTC thermistor)
■ Interfaces / Protocol:	CAN / CAN (2.0) ISO 11898, another interface possible: via Gateways; Binär, LON®, Modbus
■ Periphery equipment connection (via CAN bus):	e.g. BMTI 5 operating and annunciator terminal, annunciator and control panels – FolioTec series
■ Parameterization:	At the appliance or via connected peripheral equipment
■ Displays:	Plain-text display operating and fault notifications and LED
■ 100% documentation of malfunctioning in non-volatile memory (buffered RTC integrated)	
■ Monitoring the „Recurrent Test“, triggering „Silent Alarm“ on test intervals being exceeded	
Insulation fault search (IFS) in association with IFS-710-W6 insulation fault detection devices	
■ Outgoing circuit-related fault detection	
■ Integrated transducer	
■ Test signal response threshold: 0.5 mA	
■ Up to 30 outgoing circuits are monitorable	

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