

VARIMETER IMD



Insulation Monitor LK 5895 / LK 5896

With the new **Insulation Monitors LK 5895** and **LK 5896** from the **VARIMETER IMD** family, DOLD offers a convincing solution for insulation monitoring of non-earthed AC, AC/DC, and DC power supplies (IT systems). The devices increase the availability of plants and are used for preventive maintenance and repair. Faults are detected even during operation and costly plant standstills are prevented. The insulation monitors were specially designed for use in modern power supplies that often include rectifiers, converters, thyristor controllers or directly connected DC components. EMC interference suppression with its leakage capacitances against earth plays an important role in this matter. The two insulation monitors meet these requirements.

Besides a faster fault localisation by selective earth fault detection and optimised measuring times, the insulation monitors can deal with system leakage capacitances of up to 3000 μ F.They are also universally applicable in non-earthed DC/AC and mixed networks from 0 V to 1000 V nominal voltage. The maximum voltage is up to DC 1500 V and AC 1100 V without additional adaption device. An additional measurement circuit allows simultaneous monitoring of an AC network which is galvanically isolated from the main measurement circuit. Universal analogue outputs for the insulation resistance output complete the device's functionality.

Advantages and customer benefit

- Preventive fire and plant protection
- Early insulation fault detection during operation
- No additional adaption device needed
- Fast error localisation via selective earth fault detection to L+ and L-
- Suitable for universal application in non-earthed DC/AC and mixed networks
- Suitable for large-scale system leakage capacitances up to 3000 μF
- Simple adjustment via latching rotary switches
- Reliable monitoring, also in voltage-free network
- LK 5896 with additional measurement circuit

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Technical features	 Detection of symmetrifaults Measurement circuits terminals, e.g. in case I changeover contact 3. Output relay to ind Max. voltage up to DO Adjustment range present and the symmetries Adjustment range and Open circuit or close output relay Adjustment of maximeria to reduce response ti LED chain for indication insulation resistance Indication of active meria Automated and manue Manual or auto alarm 	warning threshold: 20 kΩ 2 MΩ rm threshold: 1 kΩ 250 kΩ d circuit principle selectable for um system leakage capacitance me on of the current easurement circuits al device self test reset selectable et buttons can be connected	Insulation monitor KK 5896	
Order information		95.12/010 DC 20 30 V	Buzzer	Indicating instrument
	Item number: 006521		RK 8832	RP 5898
	Item number: 006513	96.13/100 DC 20 30 V 1		
Application	With its two measurement circuits, i.e. the main measure- ment circuit and the additional measurement circuit, the insulation monitor LK 5896 is perfectly suitable for photo- voltaic systems. While the main measurement circuit monitors the DC side for insulation faults in front of the inverter, the insulation resistance against earth can be analysed on the AC side by means of the additional meas- urement circuit. And this is done prior to connection to the photovoltaic system. In order to prevent a reciprocal influence of both measurement circles, the additional measurement circuit is deactivated via control terminal when connecting the system.		 Fields of application Non-earthed DC/AC and mixed IT networks UPS systems Networks with frequency converters Battery networks DC driven networks Photovoltaic systems Hybrid cars or battery operated cars 	
$C_{\rm E} \leq 3000 \mu{\rm F}$	=			PE
			M11155	
Principle of a non-earthed also after the inverter, bef	IT system with insulation mon ore connection	itoring		
Further information			DOLD	
14/5000	0	You need a device for system leakage capacitances		•
LK 5896	Start 🥄	system leakage capacitances up to 1000 μ F?	E. DOLD & SÖHNE P.O. Box 1251 • 78114 F Phone +49 7723 6540 •	KG urtwangen • Germany Fax +49 7723 654356 www.dold.com
www.dold.com		LK 5894	dold-relays@dold.com	rax +47 //23 654356 7 www.dold.com