

## Insulation Monitoring device for Industrial Automation applications

### IMD SERIES, TYPE IM-04, IM-04\_24



- Designed to be used in demanding industrial environments
- Functionality verification has included frequency converter applications
- Measures the insulation resistance and capacitance of AC/DC networks
- Detects also symmetrical insulation faults
- Suitable for different application fields, for example
  - AC drive installations
  - AC installations in demanding environments
  - Service and training facilities
  - DC networks
  - Electric vehicle DC charging stations
  - Marine and traction

#### Power supply specifications

Nominal Input voltage	110-240 VAC, 110-300 VDC
Line frequency	15 - 460 Hz
Nominal Input voltage (IM-04_24)	24 VDC +/-10%
Nominal Input voltage (CLT-01)	12 VDC

#### Measurement specification

Maximum input voltage	300 VAC / 300 VDC
Resistance measurement range	1k $\Omega$ ...1M $\Omega$
Capacitance measurement range	100nF-100uF
System frequency	DC, 10Hz - 500Hz

#### Alarm contacts with settable limits (potential free changeover)

Alarm contact	5A at 250VAC
Pre-alarm contact	5A at 250VAC

#### Other functions

Suitable also for frequency converter solutions  
Compatible also with 3 phase IT networks

#### RS-485 serial connection for remote monitoring / controlling

Easy and explanatory user interface	LEDs and backlit LCD display
Analog output of resistance measurement	4...20 mA, with current loop transmitter CLT-01
Self-testing automatic	Periodic
Self-testing immediate	With TEST button

#### Standards

Measurements	IEC 61557-8:2014
Safety	IEC 61010-1:2010 (3 <sup>rd</sup> Edition), IEC 60664-1 and IEC 60664-3
EMC	IEC 61326-2-4, CISPR 11 / EN55011, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-11

#### Marine

#### General

Dimension (W x L x D)	IM-04 54 x 110 x 62 mm CLT-01 36 x 110 x 62 mm
Case Material	Plastic
Mounting interface	DIN rail clamp or screw mounting
Tamb	-25 °C ... + 55 °C



[http://www.else.sk/product.php?id\\_product=4693](http://www.else.sk/product.php?id_product=4693)

## Muuntosähkö

Trafox is a brand of Muuntosähkö Oy. We develop, manufacture and customise high-quality transformers, chokes, filters and Trafox Superintend® monitoring devices for a large number of applications.

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