

# Insulation Monitoring device for Marine applications

IMD SERIES, TYPE IM-04.INDM, IM-04.INDM\_24



NEW!



- Designed to be used in demanding Marine environments
- Functionality verification has included frequency converter applications
- Measures the insulation resistance and capacitance of AC/DC networks
- Detects also symmetrical insulation faults

## 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  | 1kΩ...1MΩ         |
| 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                                |

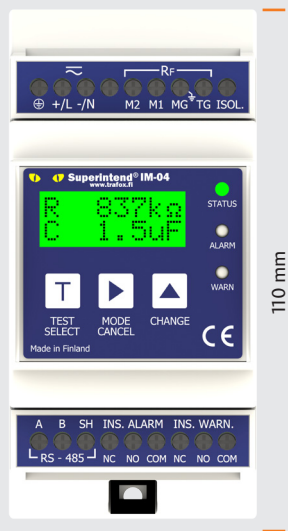
## Standards

|              |                                                                                                                        |
|--------------|------------------------------------------------------------------------------------------------------------------------|
| 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       | Lloyds register<br>Certificate No: LR2553708TA<br>IEC61326-1:2021<br>IEC61326-2-4:2012<br>IEC 61557-8<br>ENV2          |

## General

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

IM-04.INDM



CLT-01



## 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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