

## Insulation Monitoring device for Industrial applications

### IMD SERIES, TYPES IM-03 AND IM-03.T



# NEW!

- Designed to be used in demanding industrial environments up to 7200 VAC
- 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 (IM-03.T)

#### Power supply specifications

Nominal Input voltage	110-240 VAC, 110-300 VDC (Schurter 0001.2503 (T800mA))
Nominal input current	0.04 A at 230 VAC
Line frequency	48 ~ 62 Hz

#### Measurement specification

Maximum input voltage	690 VAC / 800 VDC
Resistance measurement range	20k $\Omega$ ...10M $\Omega$ (22k $\Omega$ ...4M $\Omega$ with better than 15% accuracy)
Capacitance measurement range	100nF...100 $\mu$ F
System frequency	DC, 10Hz - 500Hz
Measuring impedance	220k $\Omega$
Test voltage	30Vp max

#### Alarm contact with settable limit (potential free changeover)

Alarm contact	5A at 250VAC
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#### Other functions

RS-485 serial connection	
Modbus/TCP interface for remote monitoring and controlling	

Analog output of resistance measurement 4...20 mA, with current loop transmitter CLT-01

High voltage couplers HVC-16AC, HVC-40AC and HVC-72AC enables insulation level monitoring of industrial isolated (IT) networks with voltages up to 1600 VAC, 4000 VAC or 7200VAC  
Suitable also for frequency converter solutions

Compatible also with 3 phase IT networks

Self-testing automatic	Continuous
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

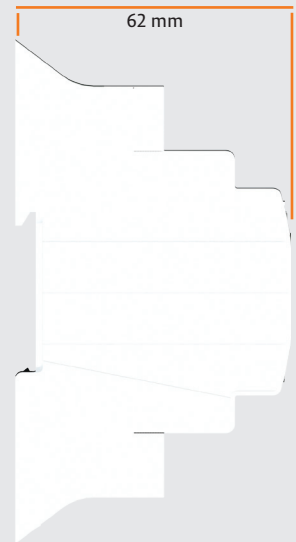
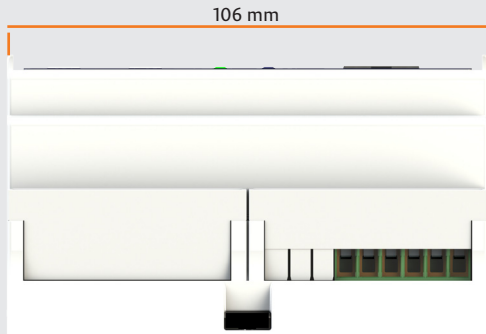
Marine

#### General

Dimension (W x L x D)	IM-03 106 x 110 x 62 mm CLT-01 36 x 110 x 62 mm
Case Material	Plastic
Mounting interface	DIN rail clamp or screw mounting

## IM-03

## Current loop transmitter, CLT-01



IM-03.T is able to withstand even more demanding conditions:

- Minimum temperature -25 °C
- Vibration
- Harsh humidity stress
- Maximum input voltage 400 VAC / 400 VDC
- Resistance measurement range 1...900kΩ
- Maximum system leakage capacitance 300uF

Possible installation locations include railway and marine applications.

IM-03 is available also without enclosure (IM-03.L) for device manufacturers.

All our insulation monitoring devices can be monitored remotely over the Internet, independently of distance and location.

## 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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