

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	20k Ω...5MΩ with better than 15% accuracy
System frequency	DC, 10Hz - 500Hz
Measuring impedance	220kΩ
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

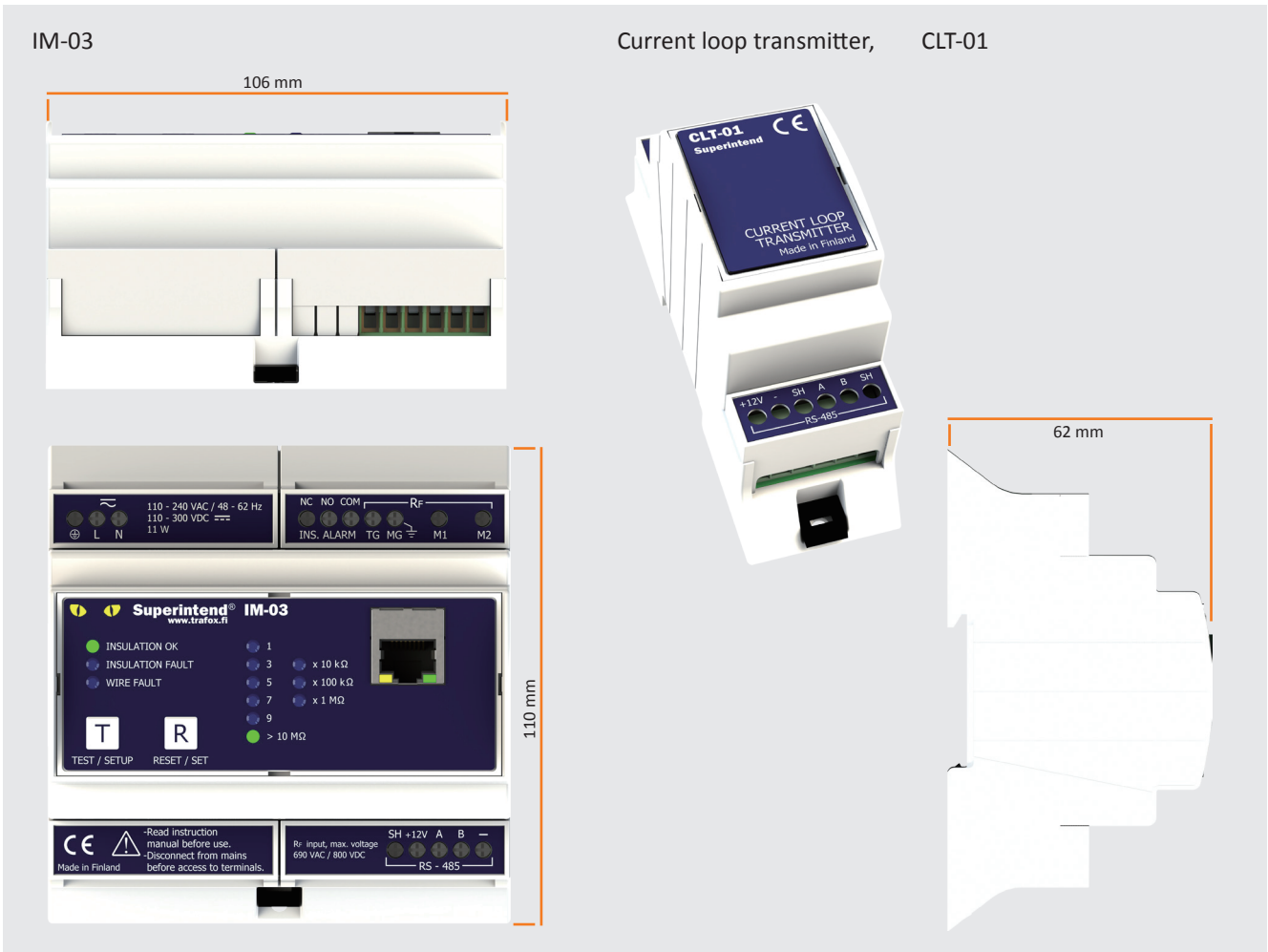
Measurements	IEC 61557-8:2014
Safety	IEC 61010-1:2010 (3 rd Edition), IEC 60664-1 and IEC 60664-3
EMC	IEC 61326-2-4, CISPR 11 / EN55011, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-11
Marine	

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	

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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...900k Ω
- 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.