



# Insulation Monitoring device for Industrial applications ID SERIES, TYPES : ID-03 / ID-03.T



交流、直流、儲能、電動汽車、船舶牽引

- 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 (ID-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 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 CT-03

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

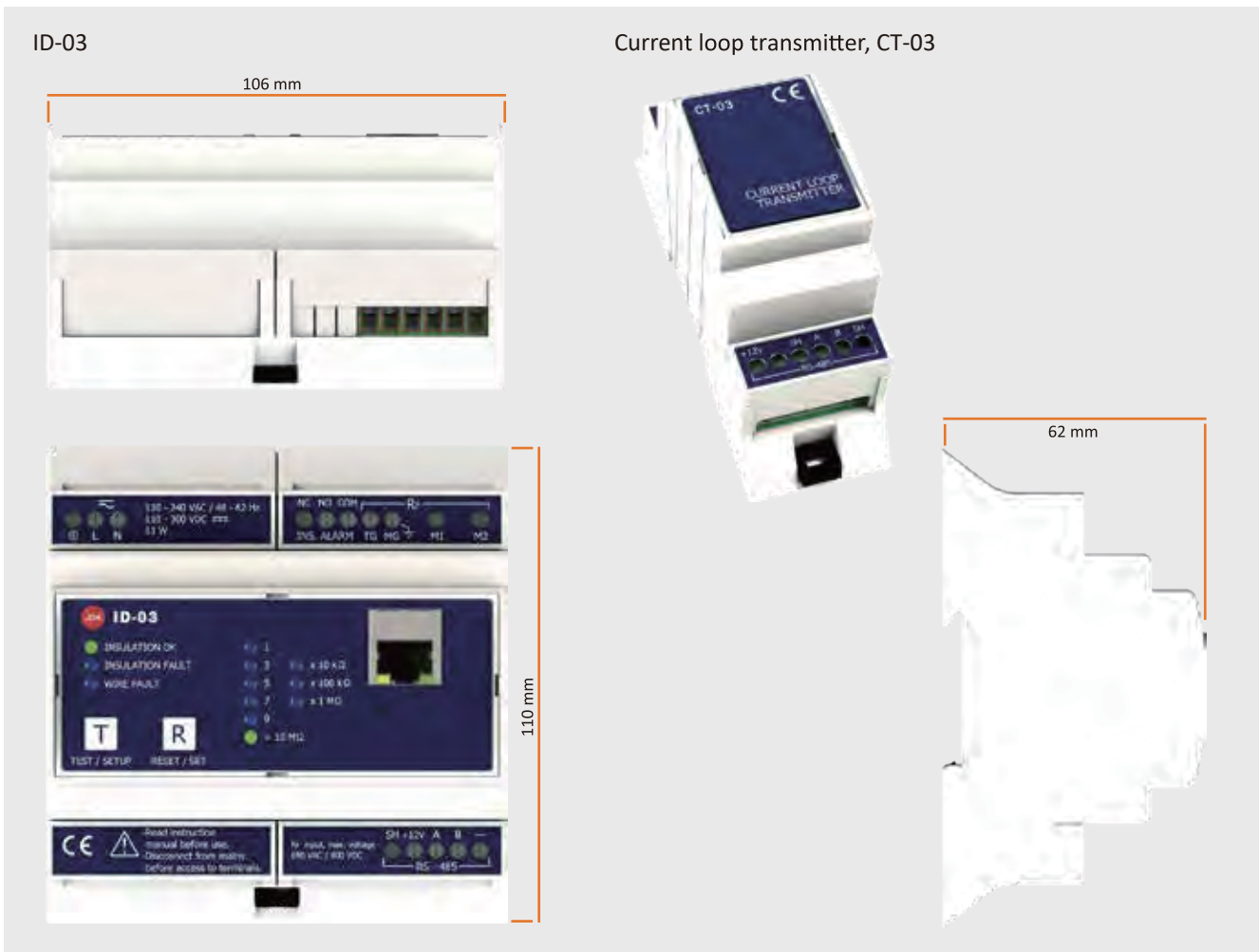
## Standards

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)	ID-03    106 x 110 x 62 mm CT-03    36 x 110 x 62 mm
Case Material	Plastic
Mounting interface	DIN rail clamp or screw mounting



ID-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.

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

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