

## Insulation Monitoring device for DC charging station

### IMD SERIES, TYPE IM-04DCCT, HVC-10



# NEW!

NOW WITH VOLTAGE MEASUREMENT!

- Designed to be used in demanding environments
- Measures the insulation resistance and capacitance of AC/DC networks
- Detects also symmetrical insulation faults
- Suitable for different application fields, for example
  - Electric vehicle DC charging stations
  - DC networks
- Nominal system voltage 0...1000 VDC
- N/C and N/O selectable
- Modbus RTU
- Automatic adaptation to the system leakage capacitance up to 5  $\mu$ F
- Selectable start-up delay
- According to the standard IEC 61851-23
- NEW! Measurement of system voltage

### Power supply specifications

Nominal Input voltage	110-240 VAC, 110-300 VDC
Line frequency	15 - 460 Hz

### Measurement specification

Maximum input voltage	1000VDC / 690 VAC
Resistance measurement range	10k $\Omega$ ...1M $\Omega$
Capacitance measurement range	100nF-5 $\mu$ F
System frequency	DC, 10Hz - 500Hz
Start-up delay	0...60 s
System voltage measurement	0 - 1000 VDC, 0 - 690 VAC, 0 - 60 Hz

### Alarm contacts with settable limits (potential free changeover, N/C and N/O selectable)

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

### Other functions

Compatible also with 3 phase IT networks

### RS-485 serial connection with Modbus RTU for remote monitoring / controlling

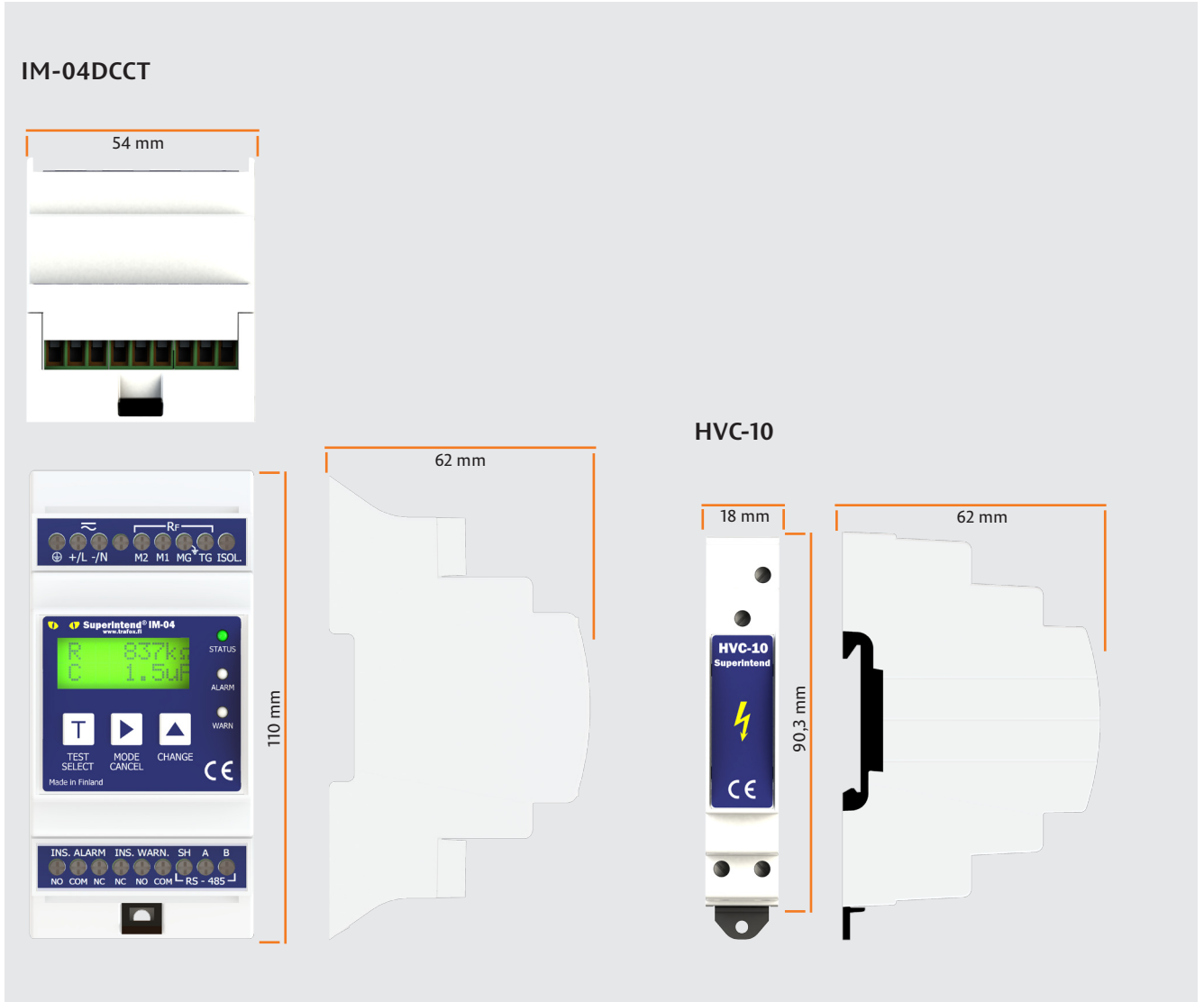
Easy and explanatory user interface	LEDs and backlit LCD display
Self-testing automatic	Periodic
Self-testing immediate	With TEST button

### 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
DC ELECTRIC VEHICLE CHARGING STATION	IEC 61851-23

### General

Dimension (W x L x D)	IM-04DCCT 54 x 110 x 62 mm
Case Material	Plastic
Mounting interface	DIN rail clamp or screw mounting
Tamb	-25 °C ... + 70 °C



## 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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