



**Matje të sakta  
me produkte  
profesionale  
Megger!**

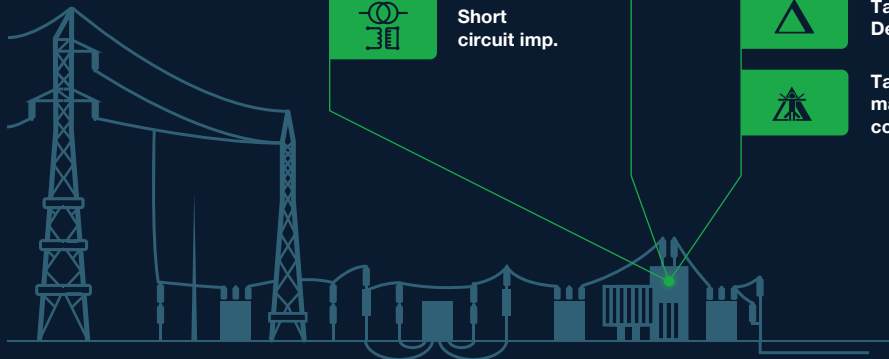
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# Application field

## Power transformer

Perform by  
Megger TRAX-220



# Application field

## Instrument transformers

Perform by  
Megger TRAX-220



# Application field

## Substation

Perform by  
Megger TRAX-220

CB



### 3-ph CB analyzer:

Timing test (O, C, OC, CO & OCO), station voltage, PIR, coil current, breaker graphs (timing, voltage, current)

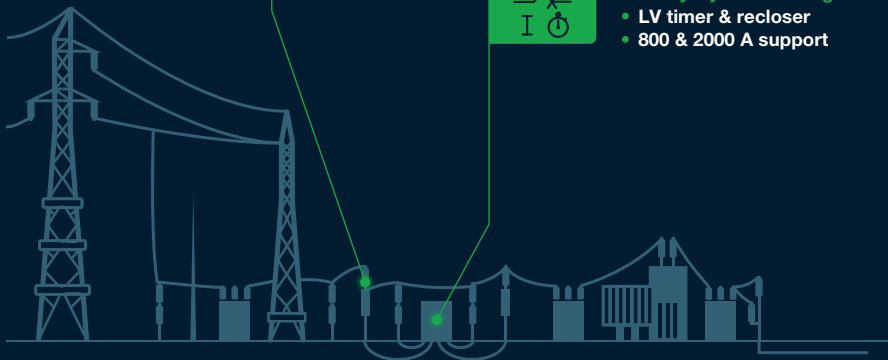


Contact resistance



### Primary injection timing

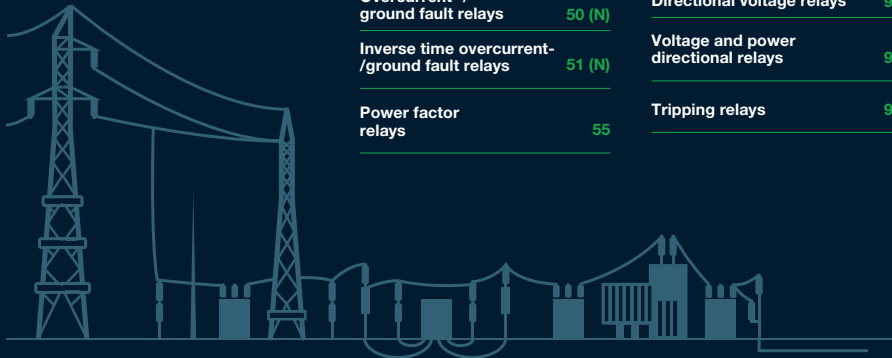
- LV timer & recloser
- 800 & 2000 A support



# Application field

## Relay and Substation Test System

Perform by  
Megger **SVERKER 900**



Distance protection/ under impedance relay	21	Overvoltage relays	59
Over fluxing relays	24	Voltage or current balance relays	60
Synchronising or synchronism-check relays	25	Directional overcurrent relays/ ground fault relay	67 (N)
Under voltage relays	27	Motor overload protection	66
Directional Power relays	32	DC overcurrent relays	76
Undercurrent or underpower relays	37	Phase-angle measuring or out-of-step protection relays	78
Loss of field relays	40	Automatic reclosing devices	79
Negative sequence overcurrent relays	46	Frequency relays	81
Phase sequence overcurrent relays	47	Carrier or pilot wire	85
Thermal relays	49	Differential protection relays (differential circuits)	87
Overcurrent- / ground fault relays	50 (N)	Directional voltage relays	91
Inverse time overcurrent- /ground fault relays	51 (N)	Voltage and power directional relays	92
Power factor relays	55	Tripping relays	91

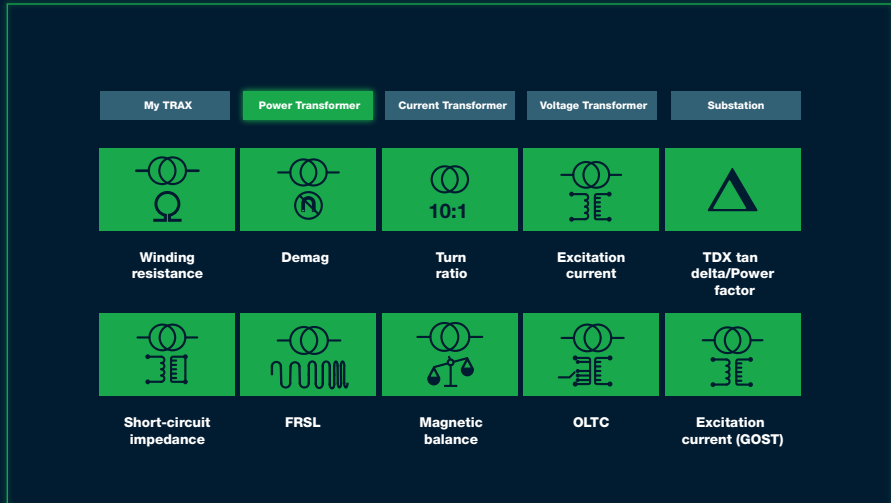
# Application field

## Testing in our laboratory

- ✓ High voltage test up to **80kV AC – 110kV DC**
- ✓ Contact resistance up to **100A**
- ✓ Primary injection up to **5000A**
- ✓ Secondary injection up to **50A**
- ✓ Measurements of earth protection
- ✓ Insulation resistance **2.5kV, 5kV & 10kV**
- ✓ Thermal camera for hot point
- ✓ Current clamp up to **1500A**
- ✓ RCCB test



## ■ Software, Reports





Software,  
■ Reports

16.12.2004

## Megger

### TRAX - Test report

**Test Article**

Substation: \_\_\_\_\_  
 Position: \_\_\_\_\_  
 Site #: \_\_\_\_\_  
 Annual ID: \_\_\_\_\_

**Power Transformer Information**

Manufacturer: \_\_\_\_\_  
 Model: 50 12.5/30  
 Serial #: TR1101  
 Year: \_\_\_\_\_  
 Voltage: 110 kV  
 Voltage group: 011  
 YN   

**Test Conditions**

Weather: \_\_\_\_\_  
 Temperature: \_\_\_\_\_  
 Humidity: \_\_\_\_\_  
 Wind speed: \_\_\_\_\_  
 Wind direction: \_\_\_\_\_  
 Test time: \_\_\_\_\_

**Test Results**

Test	Value	Unit	Limit	Pass	Notes
Winding	12.5	kV	10		
Primary	12.5	10000	10000		
Secondary	12.5	10000	10000		
Tertiary	12.5	10000	10000		

Comment: \_\_\_\_\_

**Test results**

Overall Pass: \_\_\_\_\_  
 Overall Fail: \_\_\_\_\_  
 Overall OK: \_\_\_\_\_

Functionality expansion  
with portable devices - for service  
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