

# Typetest & Reliability Service – TRS

We help you verify and ensure your product's compliance with regulations and standards, and we can help you improve the reliability of your product throughout its operational life

## Electrical, EMC, and safety

We offer a variety of electrical testing services that meet all typical requirements for verification of safety and electromagnetic compatibility as stipulated by the EMC Directive, the Low Voltage Directive, Underwriters Laboratories, The Canadian Standards Association, The CB Scheme, and typical marine standards among others.

### Electrical tests:

Duration testing of electronics

- Power cycling
- Excessive voltages/currents

### EMC – Immunity:

- Fast transient (burst): up to 4.4 kV
- Slow transients (surge): up to 6.6 kV
- ESD: up to 15/8 kV
- RF conducted: up to 15 V & 80 MHz RMS
- ISO pulses for agro-electronics
- Radiated immunity
- Magn.field: up to 440 A/m, 50/60 Hz

### EMC – Emission:

- RF conducted emission
- RF radiated emission
- Harmonics&flicker
- Radio spurious pre test

### Safety:

- High voltage: up to 5 kV AC & 6 kV DC
- Earth continuity: up to 36 A
- Encapsulation strength
- Insulation resistance: 0-1000 MΩ

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## Reliability testing

We can help you find the weak points in your product before your customers find them, and we can help you create a larger margin of error in your product.

## Climate, vibration, and corrosion

The environmental testing facilities at EKTOS provide for meeting all typical environmental testing requirements for electronic solutions in the fields of industry, marine, defense, agriculture, and transportation.

### Vibration:

- Frequency: from 5 to 5000 Hz
- Level: up to 100 g peak (load dependent)
- Type: sine, random
- Max. load size: 80\*80 cm, 300 kg

### Mechanical check:

- Type: half-sine, trapezoidal
- Level: up to 50 g peak (load dependent)

### Climatic:

- Temperature range: -50 °C to 160 °C
- Humidity: 20 to 98 % RH
- Type: constant, cyclic
- Max. load size: 50\*80\*50 cm, 50 kg

### Temperature:

- Temperature range: -100 to +200 °C
- Max. load size: 90\*90\*90 cm, 200 kg

### Corrosion:

- Temperature range: +20 to +50 °C
- Corrosion: NaCl, 5 % vol
- Type: constant, cyclic
- Max. load size: 60\*60\*60 cm, 50 kg



The Shaker System is one of the types of test equipment we use for environmental testing



We have a state-of-the-art HALT chamber for improving product reliability and reducing failure rates



We can help you obtain certifications and approvals from authorities and certification agencies

### Let's get in touch!

Contact us for more information about pricing, scheduling, or in order to discuss how you can benefit from testing your products with us

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