

Enclosure test services

Enclosure testing is performed to test the enclosures of electronics for the ingress of dust and water, the corrosion of the enclosure by salt atmosphere and corrosive gasses. UV testing is performed to validate whether the plastic enclosure can withstand solar radiation.



DUST TEST:

- Large Chamber (Approx 3.8 m x 4.0 m x 2.6 m with 300 mm duct)
- Small chamber (Approx 900 mm cube)
- IP5X (dust protected)
- IP6X (dust tight)
- Talcum powder, BS 1701 or Arizona dust
- Specifications: IEC60529, MIL-STD-810 method 510.4



WATER TIGHTNESS:

- IPX1 Protected against vertically falling water drops
- IPX2 Protected against vertically falling water drops when enclosure tilted up to 15°
- IPX3 Protected against spraying water
- IPX4 Protected against splashing water
- IPX5 Protected against water jets
- IPX6 Protected against powerful water jets
- IPX7 Protected against the effects of temporary immersion in water
- IPX8 Protected against the effects of continuous immersion in water



CORROSION TEST:

- Salt mist/fog
- Chamber size: 760 x 530 x 600 mm
- Test condition: 5% NaCl, +35°C
- Specification: IEC68-2-11, MIL-STD-810 method 509.4

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SOLAR RADIATION TEST:

- Irradiance 1000+/- 100W/m² at 280-3000nm
- Light source = metal halogenide
- Specification: MIL-STD-810, method 505.4, DIN75220 or IEC 60068-2-5
- Available via external source



GAS CORROSION TEST:

- Kesternich test
 - DIN50018, SO₂
- Gas corrosion test:
 - IEC60068-2-60
 - Method 4: 14 days @ +25±1°C, 75±3%rh,
 - 200±20 ppb SO₂
 - 200±20 ppb NO₂
 - 10±5 ppb H₂S
 - 10±5 ppb Cl₂
- Ozone test:
 - ISO1431-1
 - 1000 hours @ +40°C, 50 ppm Ozone
- H₂S test
 - IEC60068-2-43:
 - 10x10E-6 to 15x10E-6 vol/vol (ppm) H₂S, +25±2°C, 75±5%rh, 21 days
- Available via external source



BLOWING RAIN TEST:

- Simulation of heavy rain and winds
- Conditions: 50 mm/h 2 hours total (4 sides @ 30 min) and wind speed 18 m/s
- Specification: MIL-STD-810, Method 506.4

For more info please visit www.maser.nl
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