

Circulo Mechanical Immunity

Technical Brief

Subject

Shock & vibration (mechanical immunity) tests were conducted at Kriwan labs in conjunction with the safety certification (STO/SBC) of SOMANET Circulo.

The official test report provides results in terms of the official pass / fail criteria: STO and SBC functions remained functional (before, during and after the test), and visual inspection shows no changes and no loose or rattling parts.

Report & Results

SOMANET Circulo as a product was tested successfully for immunity against shock and vibration according to IEC 60068-2-27:2008 (shock) and IEC 60068-2-6:2007 (vibration) with the following criteria:

- Shock: 5g / 30 ms half sine
- Vibration:
 - $10 \text{ Hz} \leq f \leq 57 \text{ Hz}$: +/-0.075 mm
 - $57 \text{ Hz} \leq f \leq 150 \text{ Hz}$: 1 g

The product was tested at comparatively low values that are required in the product safety standard IEC 61800-5-2 2017.

SOMANET Circulo can be expected to stand significantly higher values, but the tests were done in the context of the safety certification. Additional tests can be conducted if higher values are explicitly requested.