



➤ Quality Assurance Services

Tellumat has a long heritage of innovation in the electronics industry. Our Quality Assurance Services facility is based at the company's ISO 9001:2000 accredited head office in Retreat, Cape Town with specialist facilities and equipment in both our calibration laboratory and environmental test facility. Tellumat's quality assurance division has been providing services to the defence and military, information technology, automotive and telecommunications industries for more than 25 years. Tellumat Quality Assurance Services can assist in developing calibration and environmental test programmes which can be tailor-made to minimise turnaround-time and cost.

Calibration Laboratory

Our calibration laboratory was amongst the first laboratories in South Africa to attain official accreditation in 1983, following the establishment of the National Calibration Service (NCS). The laboratory currently maintains accreditation in three electronic fields from the South African National Accreditation System (SANAS), which is a member of the International Laboratory Accreditation Co-operation (ILAC) and the International Accreditation Forum (IAF). Certificates issued by our laboratory are therefore internationally recognised. The calibration laboratory has, over the years, developed a solid reputation for superior turnaround time, while maintaining the highest level of service.

Environmental Test Facility

The environmental test facility provides simulated environments for development, qualification, acceptance, research and reliability testing of products. The facility can simulate extreme temperature conditions, vibration, shock, humidity, altitude, salt atmosphere, UV as well as combinations of these conditions. All the environmental test chambers and the vibration shaker in the facility use precision computer control and dedicated software to simulate any user defined environment within the specifications of the equipment. We also offer expert environmental consulting services in developing environmental test plans to perform the testing to reduce product failures in the field and to reduce the product time to market.

➤ Calibration Laboratory

SABS ISO/ IEC 17025:2005

This laboratory is **SANAS accredited** in the following fields:

- No. 117 **DC Low Frequency Metrology** including capacitance, inductance and electrical calibration of temperature measuring devices
- No. 517 **Time and Frequency Metrology**
- No. 717 **Radio Frequency Metrology** including oscilloscopes

Traceable to international standards, calibration is offered for:
Temperature, Dimensional, Force/Torque and Mass, RF above 1 GHz

➤ Environmental Test Facility

Vibration Modes

Random, Sine, Shock & Mixed mode analysis
Vibration / Temperature combination

Vibration Specification

5 Hz to 3 kHz 60 g. Max payload 400 kg

Bump Machine

10 g, 20 g, 40 g, 50 g

Altitude Simulation

With Thermo cycling

Humidity Simulation

With Thermo cycling

Thermo - Cycling Chambers

-55°C to +100°C

UVA and UVB Simulation

Salt Spray

Mil-Std-810-F

