

WIDE RANGE OF CAPABILITIES

- ▶ DC Volts: uV to 40kV
- ▶ AC Volts: uV to 28kV
- ▶ DC Current: pA level to 100Amps, 2000A for clamps meters
- ▶ AC Current: Up to 100A Direct , 2000A for clamp meters
- ▶ Resistance: 100uOhm to 1TOhm
- ▶ Frequency: 1Hz to 1GHz (UKAS)
- ▶ Capacitance: 10pF to 10uF @ 1kHz Inductance: 10uH to 1H
- ▶ Loop Impedance
- ▶ RCD Time & Current



PRIMARY REFERENCE STANDARDS LABORATORY

Transmille's UKAS accredited laboratory is based on prime standards providing exceptionally low uncertainties supporting our capabilities to provide calibration for the most accurate instrumentation including long scale DMMs and all makes of multi product calibrators with UKAS accredited uncertainties down to 1ppm.

DC capability is based on a Guildline 12 cell bank with appropriate reference dividers. AC Voltage traceability is derived from thermal transfer standards plus an 8 dial Tinsley IVD.

Resistance calibration is based on primary and secondary standard resistors upto 1TOhm. For the ultimate in stability these are maintained in a Guildline oil bath model 9730 with temperature control to better than 0.002°C. The set includes the ultra precision ESI model SR104 10KOhm with stability to sub ppm/year levels and direct traceability to NPL, other resistors include Guildline & Tinsley S class.



Frequency is derived from a rubidium oscillator controlled from an off air frequency standard to provide a 10MHz Laboratory Reference.

Capacitance & Inductance standards from Tinsley, Sullivan and GR provide low uncertainty capabilities across a wide range.

Types of Instrument Calibrated :

- ▶ Multimeters to 8½ digit accuracy
- ▶ Loop, RCD, Insulation Testers and PAT's
- ▶ Oscilloscopes / Scopemeters
- ▶ Frequency Counters / Signal Generators
- ▶ Clamp Meters
- ▶ Res. / Cap. / Ind. Decade Boxes
- ▶ Power Supplies
- ▶ Thermocouple / Temperature Meters
- ▶ Flash and Breakdown testers
- ▶ Power Meters / Harmonic Analysers
- ▶ Picoamp Meters / Electrometers
- ▶ HV Probes / Current Shunts
- ▶ LCR Bridges / Meters
- ▶ DMM / Multiproduct Calibrators
- ▶ Chart recorders
- ▶ Plus many more...

Primary Standards & References Calibrated :

- ▶ Standard cells and Voltage References
- ▶ Standard Resistors, Capacitors & Inductors
- ▶ Voltage dividers
- ▶ Frequency sources



16th EDITION TEST EQUIPMENT SPECIALISTS

UKAS / CLASS 1



Transmille are leaders in the field of electrical test equipment calibration. All calibrations are computer automated using the industry standard 3200 Electrical Test Equipment calibrator developed by Transmille.

Our in depth knowledge and experience in this area of calibration gives us the capability to calibrate all makes of testers, offering a detailed check of all functions and ranges whilst keeping prices low.



Types of Instrument Calibrated :

- Insulation Testers (1kV / 5kV) to 1TOhm
- RCD Testers
- Loop Testers
- PATs
- Installation Testers

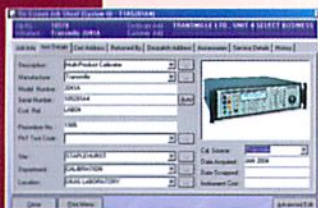


COMPUTER CONTROLLED CALIBRATION



Our computer controlled calibration stations provide cost effective calibration whilst ensuring quality and repeatability. The use of software specifically designed by Transmille also eliminates mistakes often associated with manually recorded readings, with calibration coordinated by the computer system from taking measurements through to producing calibration certificates, labels and service logs.

Dedicated computer controlled systems for electrical calibration are based on Transmille 3010 multiproduct calibrators, 3200 16th Edition calibrators and Agilent (HP) 3458A DMMs. Instruments are tested to manufacturers specifications and the software displays the pass/fail status of each test.



Every instrument calibrated by Transmille has a 'virtual job record'. This builds into a comprehensive record of the instrument's history including faults & corrective repairs, accessories returned etc. This invaluable record is an essential tool for our engineers and is used to provide a service log for the instrument user, helping to meeting requirements for quality systems such as ISO9000. Yet another example of the added value from Transmille calibration.



HIGH VOLTAGE AND HIGH CURRENT CALIBRATION

UKAS / CLASS 1



Voltage to 40kV

Transmille has UKAS accredited calibration facilities for both measurement and generation of voltage up to **40kV DC** and up to **28kV AC**.

AC/DC Current to 100A (up to 2000A for clamp meters)

Our high current capabilities can also offer direct AC or DC current generation and measurement up to 100 Amps for high power shunt measurements. Clamp meters up to 2000A can be calibrated using a coil.



WATT METER AND POWER ANALYSER CALIBRATION

CLASS 1

Transmille can calibrate single phase and three phase power analysers up to 1.5 MegaWatts. Phase angle and harmonic measurement functions can also be calibrated using the advanced Transmille 3010 DDS programmable power functions.