

# 1000 Series Ultra-Portable Multi Function Calibrator

Portability, without compromise



# Basic Functions

Function	Range	Notes
DC Voltage	0 – 1000V	High compliance output, with up to 100mA burden current available
AC Voltage	0 – 1000V	Frequency range from 10Hz to 20kHz
DC Current	0 – 10A	Current up to 10A without the need for external amplifiers
AC Current	0 – 10A	Frequency range 10Hz to 2kHz
Resistance	0 – 100MΩ	Variable resistance and decade resistance values fitted as standard
Capacitance	10nF – 1μF	Provides the ability to test all functions of handheld DMM's

# Advanced Functionality

Function	Range	Notes
Insulation Resistance	10M $\Omega$ – 1G $\Omega$	Supports test voltages from 50V to 1000V
Thermocouple	-210 $^{\circ}$ C to 2310 $^{\circ}$ C	Inbuilt cold junction measurement, use with EA001A to add measurement ability
Continuity Resistance	0 – 10 $\Omega$	Supports up to 300mA measurement current
Process Control (Source functions)	0 – 30V 0 – 30mA	Using the external EA022 adapter the 1000 series can measure voltage and current output of Process Control meters
Optical Tachometer	60 – 60,000 RPM	Use the external EA003 adapter to calibrate optical tachometers

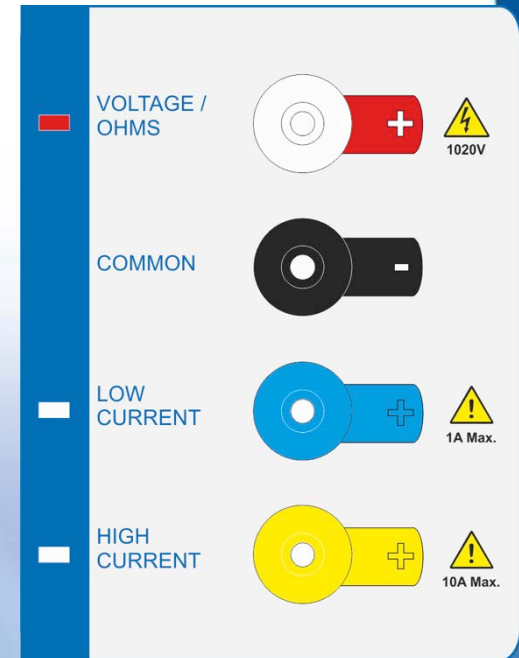
# Ultra-Portable

- The 1000 series weighs under 10Kg making it suitable for carrying on as hand luggage
- 1000B built into a durable case, ideal for transporting on site



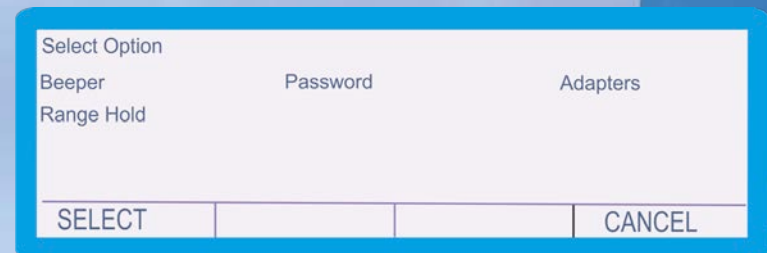
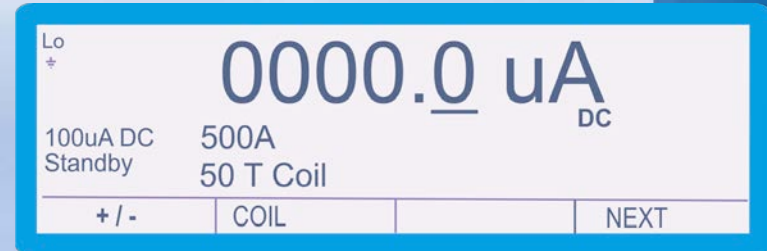
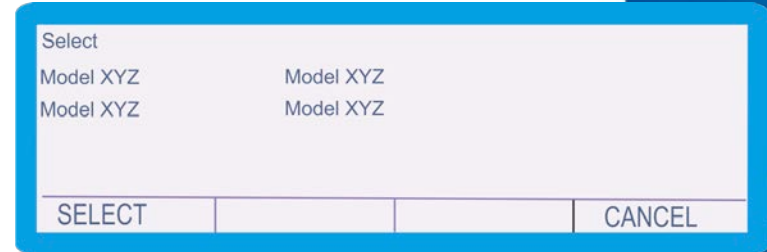
# Easy and Intuitive to Use

- Using Transmille's innovative system, active terminals are marked using an 'Active' LED, clearly indicating the correct connection to the technician



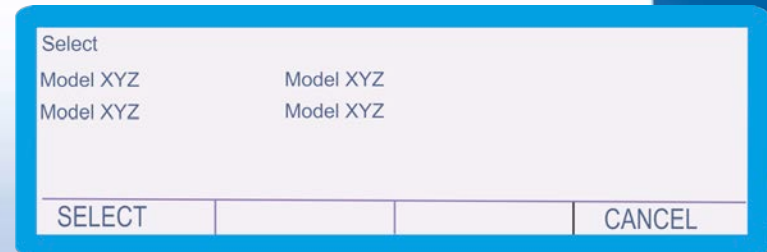
# Simple Menu System

- The large, LED backlit screen of the 1000 series makes it easy to view and easy to use
- The intuitive menu system makes it simple to access advanced functions



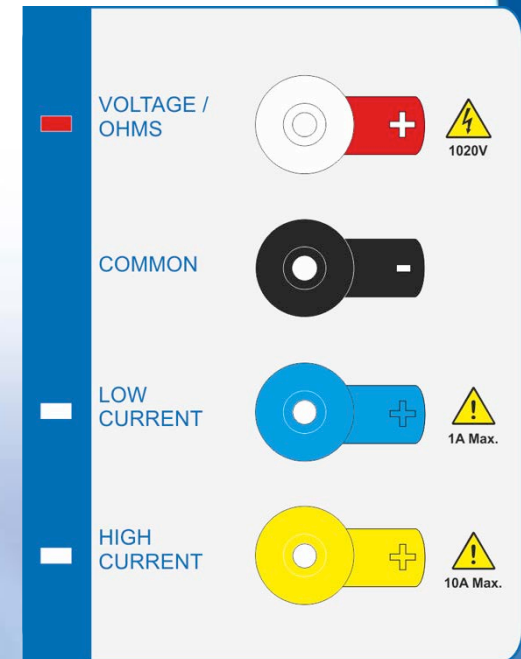
# Inbuilt Procedures

- The 1000 series can have up to 10 procedures loaded into memory, allowing for semi-automated calibration with pass/fail calculation and pre-selected test points



# Protected from accidental misuse

- Transmille's unique 'I-Guard' system protects the 1000 series from damage due to incorrect connections, detecting voltages present on terminals prior to outputting.





# Wide Workload coverage

- High compliance outputs, with the ability to drive older analogue meters with the precision to calibrate modern meters



# PRT Temperature simulation

- The 1000 series features variable 2 wire PRT output for calibration of temperature meters and temperature ranges of multimeters
- Variable PRT types are supported, with  $r_0$  of 25 Ohms through to 1kOhm.

# Continuity Resistance

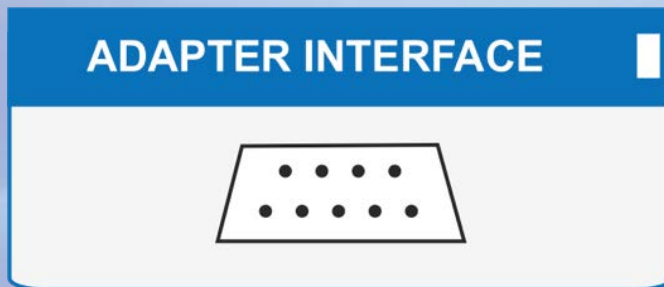
- To fully test all functions of modern equipment, the 1000 series is fitted with variable continuity resistance output, with support of testing currents up to 300mA.

# Insulation(option)

- Allows the calibration of both insulation and installation testers
- Support test voltages up to 1000V
- Simulates resistance up to 1GOhm
- Displays tester measurement voltage on screen.

# Expandable through accessories

- Compatible with external adaptors to extend workload to pressure, clamp meters and more



# Calibration of Clamp Meters

- Using the high compliance 10A output, when used with the EA002 2/10/50 Turn coil the 1000 series calibrator can calibrate clamp meters up to 500A



# Thermocouple simulation

- The 1000 series are fitted with a thermocouple output, with over 11 supported thermocouple types.
- The 1000 series can also be used with the EA001A adapter, adding thermocouple measurement ability



# Calibration of Process control meters

- With the EA022 adaptor, the 1000 series can be used to calibrate both source and measurement functions of process control meters, with Voltage, mA and 2 and 4 wire resistance measurements





# Calibration of Process control meters

- The EA022 also includes a dedicated pressure module input to allow for the calibration of pressure transducers
- The EA022 features a 24V loop supply for powering transducers



# Comparisons

Function	Transmille 1000	Competing Models	Notes
DC Voltage	0 – 1000V	0 – 100V	Competing models either lack accuracy or Range
AC Voltage	0 – 1000V	0 – 750V	Competing models either offer no AC function or have limited range
Current	0 – 10A AC/DC	0 – 1A	Competitors lack required range for calibration of handheld meters

# Comparisons

Function	Transmille 1000	Competing Models	Notes
Resistance	0 – 100Mohms	0 – 100Mohms	Competing typically do not feature variable resistance
Capacitance	10nF – 1uF	N / A	Competing models offer no capacitance output
Usability	Easy to use large LED backlit screen, rubber keyboard	Small screen, non intuitive keyboards	Transmille have used our expertise to ensure that the 1000 series is easy to use in the laboratory and on site