

## ADVANCED USER ASSISTANCE

Using the high resolution 7 Inch LCD display, the 4000 Series can provide detailed user assistance. A set of detailed diagrams offers instant access to connection schemas for each type of measurement, reducing the learning curve and ensuring consistent use of the calibrator as part of the laboratory or test facility operational procedures.

User updatable, these assistance screens offer the ability to integrate detailed information and use the 4000 Series as an extension of the overall quality system.



Customised UUT connection diagrams can also be loaded onto the system, to provide instrument specific connection assistance.

This enhanced help system provides detailed user assistance, further reducing engineer training times and offers the capability to build up a knowledge base for the range of test procedures directly stored on the 4000 Series advanced calibration system.



## USB CONNECTIVITY



The integrated USB Device port offers connectivity for a range of devices, including USB memory sticks / drives for loading and storing of internal calibration factors, specifications and other traceability data. The port also connects to PCL compatible printers for built-in report printing support. Advanced USB connectivity for UUT / reference instruments is also supported.



## ORDERING INFORMATION

MODEL 4010 4000 ADVANCED MULTI PRODUCT CALIBRATOR + UKAS Calibration Certificate

### INTERNAL OPTIONS

OPTION PWSINE	AC (SINE) / DC POWER CALIBRATION OPTION
OPTION PWRDDS	AC/DC DDS SYNTHESISED POWER OPTION
OPTION HIGHBAND	HIGH BANDWIDTH OPTION
OPTION SCP350	350MHz OSCILLOSCOPE OPTION
OPTION SCP600	620MHz OSCILLOSCOPE OPTION
OPTION PRT	PRT/RTD SIMULATION OPTION
OPTION IND	INDUCTANCE CALIBRATION OPTION
OPTION FRQ	1ppm HIGH STABILITY CRYSTAL REFERENCE
OPTION SIMRC	SIMULATED RESISTANCE & CAPACITANCE OPTION

### EXTERNAL OPTIONS

OPTION EA001A	THERMOCOUPLE SIMULATION / MEASUREMENT ADAPTER
OPTION EA002	2/10/50 TURN CLAMP COIL + ALIGNMENT PLATFORM + STD Cert
OPTION EA003	OPTICAL TACHOMETER CALIBRATION ADAPTER
OPTION EA008	HIGH RESISTANCE / pA MEASUREMENT ADAPTER*
OPTION EA013	pA SOURCE CALIBRATION ADAPTER*
OPTION EA014	TORQUE CALIBRATION ADAPTER* + STD Cert
OPTION EA015	MULTI FUNCTION WORKSTATION
OPTION EA016	HUMIDITY & TEMPERATURE SENSOR + STD Cert
OPTION EA017	4 CHANNEL OSCILLOSCOPE TEST HEAD
OPTION EA3012	AC/DC TRANSCONDUCTANCE AMPLIFIER*
OPTION EA3023	3A/63V POWER SUPPLY CALIBRATION ADAPTER*
OPTION EA3024	AC/DC KILOVOLT AMPLIFIER*
OPTION EA3025	60A/100V POWER SUPPLY CALIBRATION ADAPTER*
OPTION TPA001 to TPA018	PRESSURE CALIBRATION MODULES - SEE WEB SITE FOR LIST
OPTION PUMP	PRESSURE HAND PUMP

\* Supplied complete with VFP software. All products supplied with UKAS certificate unless otherwise specified.



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AGENT

# ADVANCED CALIBRATION SYSTEM



## 4000 SERIES

ADVANCED MULTI PRODUCT CALIBRATOR





# 4000 SERIES

## ADVANCED MULTI PRODUCT CALIBRATION SYSTEM



### BUILT-IN CALIBRATION SOFTWARE APPLICATIONS

The 4000 Series integrates a powerful calibration software application.

This system provides total functionality including procedure management, calibration record keeping and built-in PCL printer connectivity for direct printout of reports.

This complete system offer a built-in fully functional calibration workstation in a single precision instrument, ideal for a wide range of in-situ or on-site calibration and testing applications.



**BUILT-IN INPUT PROTECTION**



**I-GUARD SYSTEM PREVENTS OUTPUT BEING SWITCHED ON WHEN VOLTAGE DETECTED ON TERMINALS**

**ADVANCED ADAPTER INTERFACE**



**EXPAND WORKLOAD CAPABILITIES WITH ADD-ON ADAPTERS**

**ELECTRONIC 'COVERS ON' CALIBRATION**  
DIRECT FROM FRONT PANEL OR VIA REMOTE INTERFACE



**ELIMINATES TEMPERATURE GRADIENTS FOR THE ULTIMATE IN STABILITY**

**HIGH PERFORMANCE MULTI PROCESSOR TECHNOLOGY**



**FOR ULTRA PRECISION & ADVANCED FUNCTIONALITY**

### FUNCTIONS AT A GLANCE

**CAL SYS** EMBEDDED CALIBRATION SOFTWARE SYSTEM

**7 INCH TOUCH LCD** INTEGRATED 7 INCH HIGH RESOLUTION LCD TOUCHSCREEN

**V** AC/DC VOLTAGE TO 1000V

**A** AC/DC CURRENT TO 30A

**Ω** 2 & 4 WIRE RESISTANCE TO 1GΩ PASSIVE & SIMULATED MODES

**F** CAPACITANCE TO 10mF PASSIVE & SIMULATED MODES

**H** INDUCTANCE TO 10H

**Hz** FREQUENCY TO 10MHz

**PRT RTD** RTD/PRT SIMULATION

**USB** USB INTERFACE

**POWER SINE** SINE / DC POWER SIMULATION

**DDS POWER** HARMONIC POWER SIMULATION DIRECT DIGITAL SYNTHESIS WAVEFORM GENERATION

**O** OSCILLOSCOPE CALIBRATION 350 / 620MHz and HIGH BANDWIDTH OPTIONS

**ADAPTER** BUILT-IN ADAPTER INTERFACE EXTENDED WORKLOAD CAPABILITY WITH A WIDE RANGE OF ADD-ON ADAPTERS

### ADVANCED AUTO VALIDATION

The 4000 series with its advanced controller integrates a complete auto validation system. By connecting a measurement reference, such as the Transmille 8081 Precision multimeter, the 4000 Series can perform a sequence of measurements for specific ranges and functions and produce a detailed report.

This advanced functionality provides a self contained traceable system offering a completely automated self validation.



### TOUCH-ENHANCED INTERFACE FOR INTUIVE OPERATION



The 4000 Series implements touch screen technology to provide easier function control and management. The integration of conventional keypad controls coupled with a responsive touch screen offers an intuitive and feature rich interface. On-screen menus enhanced usability and offer improved function control.

The on screen controls bring an extra dimension of dynamic control not previously possible with keyboard based instruments, for example simply touching the setting to adjust and increasing / decreasing using the digital control. This provides detailed customisation of settings, for example power calibration where configuration of all parameters and customer user waveforms would traditionally require multiple menus.



In additional, the high resolution LCD display can be used to display detailed connection diagrams and detailed diagrams, avoiding the need to refer to printed documentation for function operation or UUT operation. This functionality provides the 4000 Series with built-in tools for operator training and reduces engineer learning curves not only in calibrator operation but for the total calibration process.

