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 NFORMATION

MODEL 4010 4000 ADVANCED MULTI PRODUCT CALIBRATOR + UKAS Calibration Certificate

INTERNAL OPTIONS

AC (SINE) / DC POWER CALIBRATION OPTION **OPTION PWRSINE 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 INDUCTANCE CALIBRATION OPTION **OPTION IND** 1ppm HIGH STABILITY CRYSTAL REFERENCE **OPTION FRQ** OPTION SIMRO 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 / DA MEASUREMENT ADAPTER **OPTION EA013** PA SOURCE CALIBRATION ADAPTER* OPTION FA014 TORQUE CALIBRATION ADAPTER* + STD Cert MULTI FUNCTION WORKSTATION **OPTION EA015 OPTION EA016 HUMIDITY & TEMPERATURE SENSOR + STD Cert OPTION EA017** 4 CHANNEL OSCILLOSCOPE TEST HEAD **OPTION EA3012** AC/DC TRANSCONDUCTANCE AMPLIFIER) 3A/63V POWER SUPPLY CALIBRATION ADAPTER* **OPTION EA3023 OPTION EA3024** AC/DC KILOVOLT AMPLIFIER* 60A/100V POWER SUPPLY CALIBRATION ADAPTER* OPTION FA3025 OPTION TPA001 to TPA018 PRESSURE CALIBRATION MODULES - SEE WEB SITE FOR LIST PRESSURE HAND PUMP

^{*} Supplied complete with VFP software. All products supplied with UKAS certificate unless otherwise specified.



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AGENT



HP Officejet 100 Mobile Printer



SOLUTIONS IN CALIBRATION

4000 SERIES

ADVANCED MULTI PRODUCT CALIBRATION SYSTEM



BUILT-IN INPUT PROTECTION



SYSTEM
SYSTEM
PREVENTS
OUTPUT BEING
SWITCHED ON
WHEN VOLTAGE
DETECTED ON
TERMINALS





EXPAND WORKLOAD CAPABILITIES WITH ADD-ON ADAPTERS

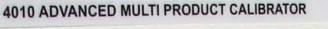
BUILT -IN CALIBRATION SOFTWARE APPLICATIONS

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.















ELIMINATES
TEMPERATURE
GRADIENTS
FOR THE
ULTIMATE IN
STABILITY



HIGH PERFORMANCE MULTI PROCESSOR TECHNOLOGY



FOR ULTRA
PRECISION &
ADVANCED
FUNCTIONALITY

FUNCTIONS AT A GLANCE



EMBEDDED CALIBRATION SOFTWARE SYSTEM



INTEGRATED 7 INCH HIGH RESOLUTION LCD TOUCHSCREEN



RC/DC VOLTAGE TO 1000V



AC/DC CURRENT TO 30A



2 & 4 WIRE RESISTANCE TO 1G Ω PASSIVE & SIMULATED MODES



CAPACITANCE TO 10mF PASSIVE & SIMULATED MODES



INDUCTANCE TO 10H



FREQUENCY TO 10MHz



RTD/PRT SIMULATION



USB INTERFACE



SINE / DC POWER SIMULATION



HARMONIC POWER SIMULATION
DIRECT DIGITAL SYNTHESIS WAVEFORM GENERATION



OSCILLOSCOPE CALIBRATION
350 / 620MHz and HIGH BANDWIDTH OPTIONS



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.

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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.