



FOR THE GLOBAL POWER INDUSTRY

200ADM-P Relay Test System

with Phase Shift & USB Data Storage

Main Output

Output currents up to 200A AC and output voltages up to 240V AC/DC from four outputs with independent metering ranges. Protected by a duty cycle trip. Current limit mode for fine current control. The metering features single cycle capture of RMS values.

Timing

Auto-ranging timer with 1ms resolution. Trigger from main output, auxiliary output or two contact sets. Auto-selecting for NO/NC with contact state indication.

USB Data Storage

All test results can be stored automatically on a standard USB memory key. All results are time and date stamped, stored as a .CSV file with a user defined comment.

Auxiliary Metering

AC and DC voltage and current up to 300V and 10A.

DC: Volts/Amps DC average & RMS ripple

AC: Volts/Amps AC RMS, frequency & phase angle

Power: VA, W and power factor

Impedance: Z, X & phase angle

CT ratio: Ratio relative to 1A & 5A CT and phase angle

Harmonic: Harmonics & THD on the output & aux input

Auto Mains Selection

Automatic selection of 115/230V supply.

Interfaces

T&R link for contact output and connection to other T&R products. RS232 for PC or printer.

DC Output

Stabilised, variable dc output 12-220VDC.

AC Output with Phase Shift

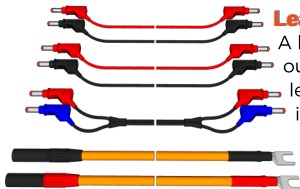
0-130V, 0-260V and 0-10A. 0-360° phase shift or a variable frequency of 45-100Hz. Use as a voltage output for directional and impedance relays, or as a second current for timing relays. Linked to the timer for timing voltage and frequency relays.

Current Limit

Very fine current control for currents up to 10A.

Lead set

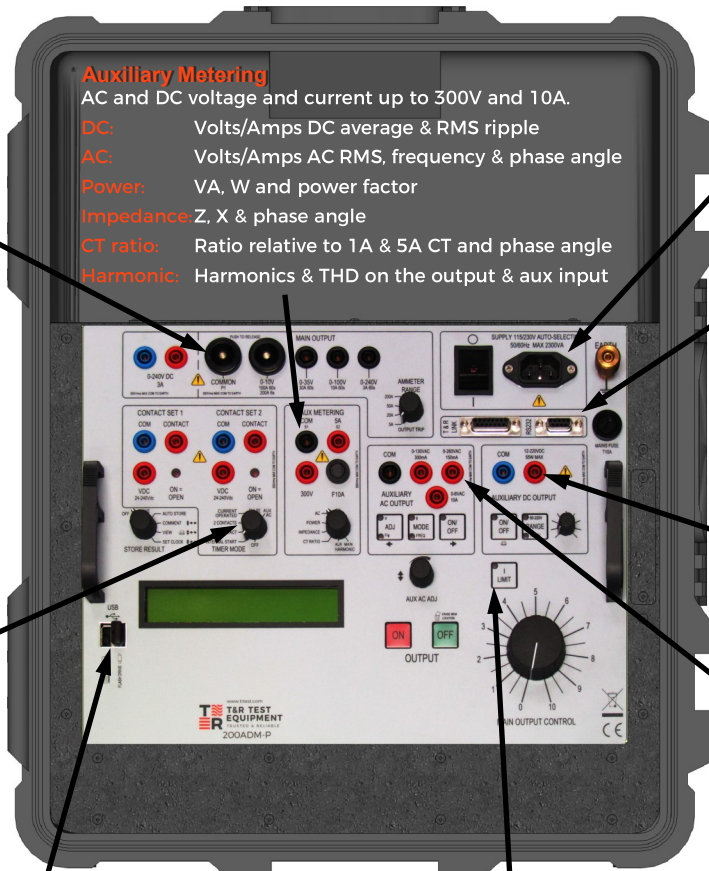
A high quality output leadset is included with each unit.



USB keyboard



USB memory key



100ADM mk4

Current Injection System

Main Output

Output currents up to 100A 10VAC for 1 minute and output voltages up to 240V AC/DC from four outputs with four independent metering ranges.

Protected by a duty cycle trip.
current limit mode for fine current control.

True RMS digital metering, with single cycle capture memory ammeter.

Timing

Auto-ranging timer with 1ms resolution. Triggered from main output, one or two contact sets. A DC Voltage of 24-240Vdc may also be used to trigger the timer. Auto-selecting for NO/NC with contact state indication. Pulse mode for sensitive devices.

AC Output

Fixed output at 110VAC up to 300mA max. Can be used to power relays under test.

Auto Mains Selection

Automatic selection of 115/230V supply input.

Interfaces

T&R link for contact output and connection to other T&R products. RS232 for PC or printer.

Current Limit

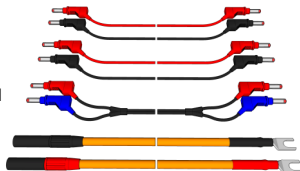
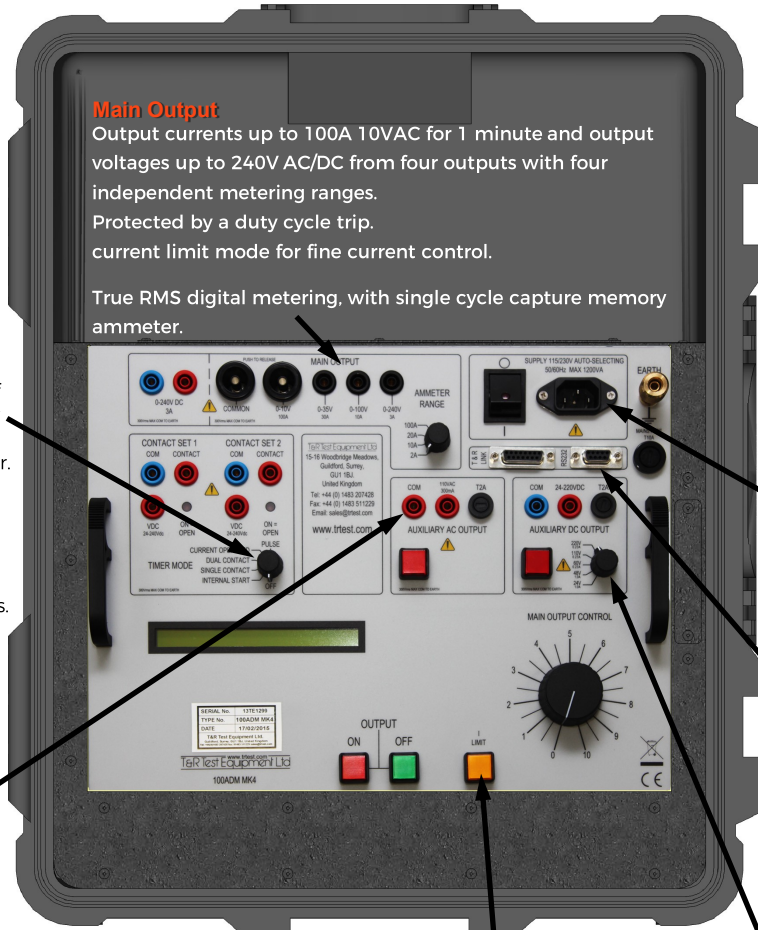
Very fine current control for currents up to 10A.

DC Output

Stabilised, stepped variable dc output 24-220VDC.

Lead set

A high quality output leadset in included with each unit.



ART3V

Voltage Relay Test System

Timing

Triggered from the main output, or one or two contact sets, from spare contacts, or a DC Voltage of 24-240Vdc. Auto-selecting for NO/NC with contact state indication.

USB Interfaces

Allow connection to a keyboard and memory stick for recording results with comments.

Rugged Case

- but weighs under 9kg.

Dynamic Mode/Menu Buttons

Quick selection of phase-lock, variable output, df/dt (ROCOF) and Fault Config modes.

LCD Display

Clear 6.5" back-lit colour display.

Touch Keypad

For fast data entry.

Main Output

Three Phase voltages up to 450V from a single-phase supply. Currents up to 40mA continuously. Full 360° phase rotation ($\pm 180^\circ$). Delta or Star connection (with supplied accessory). Protected by overcurrent and thermal trips. Frequency 30–999.99Hz.

Mains

Accepts a wide range of single phase supplies – unit will operate on 90-264V, 45-65Hz.

Rotary Encoder

For fine control of unit settings.

Lead set

A high quality 3m leadset is supplied, with a 3 core output lead and 2 core timer lead and Neutral Link accessory.



750ADM-H mk2

Primary Current Injection System

Main Output

Output currents up to 750A. The 750ADM-H mk2 has a maximum power output of 3kVA. Additional output tap of 16V up to 40A for secondary current injection.

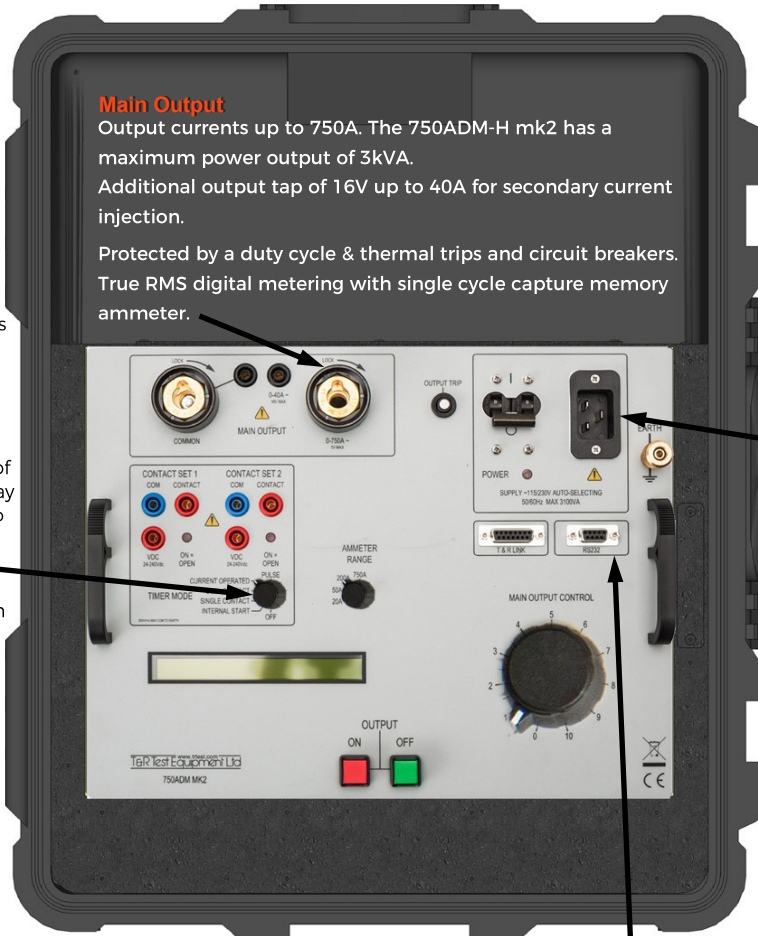
Protected by a duty cycle & thermal trips and circuit breakers. True RMS digital metering with single cycle capture memory ammeter.

Timing

Auto-ranging timer with 1ms resolution. Trigger from main output, one or two contact sets. A DC Voltage of 24-240VDC may also be used to trigger the timer. Auto-selecting for NO/NC with contact state indication. Pulse mode for sensitive devices.

Mains Supply

Automatic selection of 115/230V supply input.



Lead set

A high quality output leadset in is included with each unit.

Interfaces

T&R link for contact output and connection to other T&R products. RS232 for PC or printer.

PCU1-SP mk2

Primary Current Injection Systems

Main Output

Main Output can be connected to an NLU Loading unit for up to 5000A for 40s. Protected by magnetic trip circuit breaker. The metering features single cycle capture of RMS values.

PCU1-SP mk2 provides an additional Secondary Current Injection output for up to 100A AC at 5V or 30A at 16V from two outputs. Protected by a duty cycle trip.

Timing

Auto-ranging timer with 1ms resolution. Trigger from main output, one or two contact sets. A DC Voltage of 24-240VDC may also be used to trigger the timer. Auto-selecting for NO/NC with contact state indication. Pulse mode for sensitive devices.

Auxiliary Metering

AC and DC voltage and current up to 300V and 10A.
DC: Volts/Amps DC average & RMS ripple
AC: Volts/Amps AC RMS, frequency & phase angle
Power: VA, W and power factor
Impedance: Z, X & phase angle
CT ratio: Ratio relative to 1A & 5A CT and phase angle
Harmonic: Harmonics & THD on the main output and aux input



Mains Supply

Main supply of 230V $\pm 10\%$
 45-65Hz.
 11.5kVA
 max (23kVA for 2s)

Interfaces

T&R link for contact output and connection to other T&R products. RS232 for PC or printer.

Loading Units

A range of Loading units are available ranging from 200A to 5000A output:

NLU200 (200A for 40s)
 NLU2000 (2000A for 40s)
 NLU5000 (5000A for 40s)



Optional Accessory

The PCU1 mk2 system is available with a trolley, modified to easily carry both the control and loading units.



50A-3PH mk2

3 Phase Current Injection System



Main Output

3 Phase output currents up to 50A at 3.5VAC or 12A at 18V AC per phase.

50A output for up to 1 minute.

Protected by a duty cycle trip.

The metering features single cycle capture of RMS values.

Mains Supply

400V 4 Wire 3 phase supply max 1000VA.

AC Output

Isolated AC output with two ranges: 110VAC at 300mA maximum or 230VAC at 150mA maximum. Can be used as a power supply source for relay testing.

Interfaces

T&R link for connection to other T&R products and contact state output. RS232 for PC or printer.

Output Control

Individual output control for each phase.

Lead set

A high quality output leadset is included with each unit.

Auxiliary Metering

AC and DC voltage and current up to 270V and 5A
AC: Volts/Amps
AC RMS, frequency & phase angle
Power: RMS, Hz and Phase

Timing

Auto-ranging timer with 1ms resolution. Trigger from selected phase main output, auxiliary output and two contact sets. A DC Voltage of 24-240VDC may also be used to trigger the timer. Auto-selecting for NO/NC with contact state indication.

Optional accessory

A delta-star transformer is available that allows operation from 115V, 230V, 400V and 440V 3-wire delta supplies



DMO600 Digital Micro-Ohmmeter with USB Data Storage

10-600A Test Current 0.1 $\mu\Omega$ –5 Ω Resistance

Universal supply

90-264V supply voltage with no restriction on output current.

Main Output

5V 10-600A pre-settable current. Thermal and over-current protection. <2.5% ripple.

mV Input

Sense input for 4 wire resistance measurement

Current clamp

Connect the optional DC current clamp to measure resistance with both sides earthed.

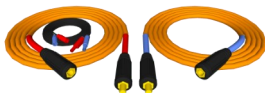


Colour LCD

Simultaneous display of current, mV and resistance.

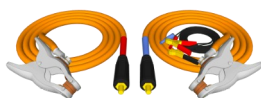
Optional extension lead sets

Optional output and sense extension lead sets available in 3m, 5m and 10m lengths.



Standard lead set

High quality 3m 600A output leads are supplied with the unit.



USB data storage

All test results can be stored automatically on a standard USB memory key. The unit has a real-time clock to time and date-stamp all results. Results are written to a CSV file that can be opened by any spreadsheet program. A USB keyboard is supplied to add comments to results.

Comment

Press this button to enter a new comment on the keyboard.

Test Current Presets

Programmable buttons to set test currents. Set to 100A, 300A and 600A by default.



200A-3PH mk2

3 Phase Current Injection System

Main Output

3 Phase output currents up to 200A for 1 minute. Protected by a duty cycle trip. The metering features single cycle capture of RMS values.

Auxiliary Metering

AC and DC voltage and current up to 300V and 10A.
AC: Volts/Amps AC RMS, frequency & phase angle.
Power: RMS, Hz, Phase.

Interfaces

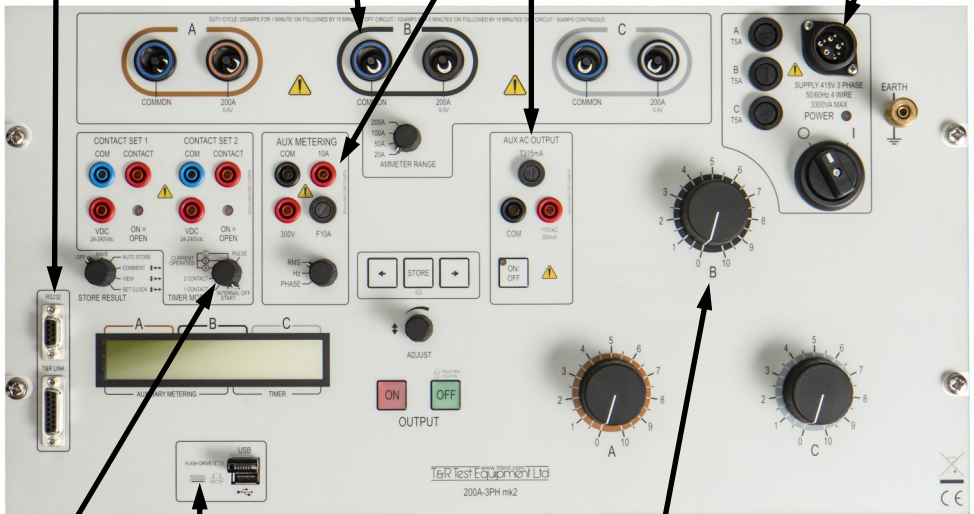
T&R link for contact output and connection to other T&R products. RS232 for PC or printer.

AC Output

Isolated output fixed at 110VAC 300mA. To power auxiliary control circuits.

Mains Supply

400V 4 Wire 3 phase supply max 3300VA



Timing

Digital display timer range of 0-999,999s with 1ms resolution. Trigger from main output, or external contacts. A DC Voltage of 240VDC maximum may also be used to trigger the timer.

USB Data Storage

All test results can be stored automatically on a standard USB memory key. All results are time and date stamped, and stored as a .CSV file with a user defined comment.



USB keyboard & Memory key.

Output Controls

Individual output control for each phase.

Optional accessory

A delta-star transformer is available that allows operation from 115V, 230V, 400V and 440V 3-wire delta supplies.



Lead set

A high quality output leadset in a heavy duty cable bag is included with each unit.



DMO200 Digital Micro-Ohmmeter with USB Data Storage

USB data storage

All test results can be stored automatically on a standard USB memory key. The unit has a real-time clock to time and date-stamp all results. Results are written to a CSV file that can be opened by any spreadsheet program. A USB keyboard is supplied to add comments to results.



A USB keyboard and USB memory key are supplied with the DMO200.

Test Current Presets

Programmable buttons to set test currents. Set to 50A, 100A and 200A by default.

Universal supply

90-264V supply voltage with no restriction on output current.

Main Output

5V 1-200A pre-settable current. Thermal and over-current protection. <2.5% ripple.

mV Input

Sense input for 4 wire resistance measurement.

Comment

Press this button to enter a new comment on the keyboard.

Colour LCD

Simultaneous display of current, mV and resistance.

Optional Current clamp

Connect the optional DC current clamp to measure resistances with both sides earthed.



Optional Kelvin clamp lead set

200A Kelvin lead set, both current injected and sense voltage measured using one clamp.

Z-OVR

Cable Impedance Test System

Data Storage

Time-stamped test results, with comment, can be stored on a USB memory key in .csv format. Results can be viewed on the display or in a spreadsheet.

Additionally, the Z-OVR can store voltage and current waveforms in .csv format.

Main Output

Isolation is provided on all outputs and inputs to be connected to the line under test. Protected by electronic trips on the outputs, with circuit breakers on the mains input and output. The output has three taps (75V, 150V & 300V), allowing the measurement of a wide range of lines and cables. Four current ranges and three voltage ranges are provided.

LCD Display

The clear blue LCD display gives a direct readout of current, voltage, impedance, reactance and phase angle. True RMS metering system with hold facility.

Mains Supply
230V \pm 10%
45-65Hz.
7kVA max.

Interface
RS232 for
PC or
printer.



Voltage Metering

Three true RMS voltmeter ranges (10, 30 & 300V).

Current Metering

Four true RMS ammeter ranges (2, 10, 20 & 100A).

Loading Unit

The NLU75/80 Loading Unit has a duty cycle trip on the output and comprehensive thermal protection.



Standard Accessories

The Z-OVR includes three phase, and earth, Kelvin connection leads, mains, power and metering interconnection leads

PT18-10 mk2 and PT30-10 mk2

High Voltage DC Cable Test Systems

Main Output

The PT30-10mk2 has terminals for 0- ± 30 kVDC or 0-60kVDC between the outputs. Each output allows up to 5mA of continuous current or 10mA for 5 minutes. 'Push/pull' connectors for ease of use.

Mains Supply

115/230V $\pm 10\%$
50/60Hz auto selecting supply input, 750VA maximum.

Metering

The PT30-10 mk2 has independent current and voltage metering for both positive and negative output. Real time analogue meters with a mA range divider for added accuracy.

Construction

The PT30-10 mk2 is housed in a robust case consisting of a rigid frame.

Accessories

A DP40 Discharge/earthing probe is provided with the PT30-10 mk2. The DP40 can discharge energy up to 7.2kJ.

Automatic Discharge/Earthing

The unit has an internal fail-safe automatic discharge system allowing an energy discharge of up to 2.5kJ.

Authorised Use

Key operated power switch preventing unauthorised operation.



VC24-24

24kV Vacuum Bottle Check System

Auto Selecting Mains supply

115/230V $\pm 10\%$
50-60Hz 650VA max.

Metering

The output voltage and current are metered by large, accurate true RMS analogue meters. The meters are backlit.

Authorised Use

Key operated power switch preventing unauthorised operation.

Main Output

Manual variable
Output voltage
0-24kV with up to
15mA continuous or
24mA for 5 minutes.

Emergency stop

Emergency stop will cut all power to the output, when activated.

mA Trip

Variable electronic trip circuit for a range of test objects; 16, 20 and 24mA.



Special Products

If you require a different output voltage test system, please contact us with your specification and we will quote for a custom design.

HV AC test systems are also available up to 100kV.

KV5-100 mk2

High Voltage AC Test System

Metering

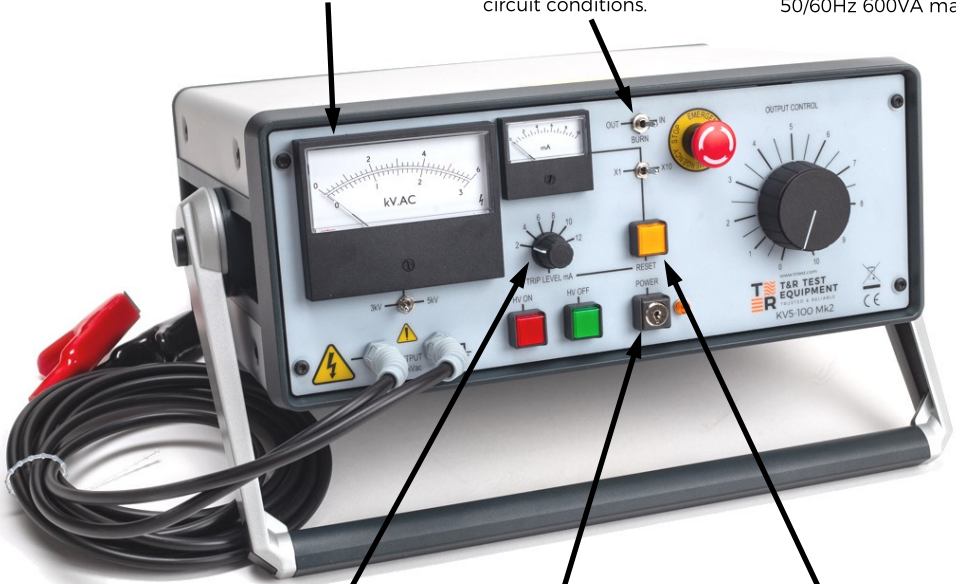
The KV5-100 mk2 is provided with two metering ranges for both the kV and mA metering using analogue moving coil meters.

Burn in Facility

Internal current limit limits output current under short circuit conditions.

Mains Supply

115/240V $\pm 10\%$
50/60Hz 600VA max.



mA Trip

Variable trip circuit, 2-12mA and 20-120mA.

Authorised Use

Key operated power switch preventing unauthorised operation.

Test Failure

Visual and Audible test failure indication.

KV30-40D mk2 series

High Voltage AC Test Systems

Auto Selecting Mains supply

115/230V $\pm 10\%$
50-60Hz 1200VA max.

External Interlock

The KV30-40 series are fitted with a 24VDC external interlock socket. The circuit can be used to connect N/C emergency switches to add additional protection to the user.

Authorised Use

Key operated power switch preventing unauthorised operation.

Test Timer

A pre-selectable test timer is provided for timed tests of 5, 10, 15, 20, 30 seconds, 1, 2, 3 or 5 minutes.

Main Output

Manual variable Output voltage 0-30kV with up to 40mA continuous output for 5 minutes.

Emergency stop

Emergency stop will cut all power to the output, when activated.

Metering

The output voltage and current are metered by large, accurate true RMS digital meters. The meters are backlit and have a digit height of 8mm.

mA Trip

Variable electronic trip circuit for a range of test objects; 4-44mA.



Special Products

If you require a different output voltage test system, please contact us with your specification and we will quote for a custom design.

HV AC test systems are also available up to 100kV.



Your local distributor is :-



บริษัท แอสราส จำกัด
1694, 1694/1 ถนนประชาสงเคราะห์
แขวงดินแดง เขตดินแดง กรุงเทพฯ 10400
โทรศัพท์ 02-277-9969-70 โทรสาร 02-277-0995
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