

PORTABLE AUTOMEG

Portable, rugged automatic electrical harness test system



PORTABLE AUTOMEG

Harness testing wherever you need it.



Portable Automeg is designed for testing in spaces too small for a standard rack-mount wire harness test system. It's easily deployable in the field for maintenance or repair fault finding.

Customers are typically in the defence, rail and subsea sectors. They include Thales, BAE Systems and MBDA.

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"The full range of electrical harness tests available in a rugged portable format."

PRODUCT APPLICATIONS

Submarines

Equipment calibration,
testing



Track-side train

Function testing,
harness testing



Naval Ships

Towed arrays, missile
systems harness tests



Military support in the field

Vehicle harness testing



Oil & gas systems



SOME OF OUR PORTABLE AUTOMEG CUSTOMERS

BAE SYSTEMS

DCNS

MBDA
MISSILE SYSTEMS

SEACORP
A KAPCO Defense Company

THALES

CUSTOMER CASE STUDIES & TESTIMONIALS



thyssenkrupp

Portable Automeg F1500 Harness Test System

ThyssenKrupp Marine Systems are the world market leader in submarines. Due to lack of space for standard rack-mounted configurations, they required a specialist portable harness test system for use on submarines at their Kiel shipyard.

Automeg Portable has now been rolled out (no pun intended) as a regular system configuration and is ideally suited to the restrictive conditions where testing is frequently required by customers in the defence sector.



Many of our Portable Automeg customers operate in the military sector and wish to remain unnamed. The below application is anonymous to maintain confidentiality.

Portable Automeg D1500 Harness Test System

We've been supplying this customer with portable wire harness test systems for over 10 years. The systems are ruggedised and portable for use on systems in remote locations.

Our unique diode return module enables single-end testing to be carried out, halving the number of interface cables required for field applications.



TEST & MEASUREMENT *capabilities*

Accurate measurements are vital. It is the diagnostic power of the MK Test System that makes an automatic test system a really powerful tool.

Let the Portable AutoMeg do the work.

CONTINUITY TEST & RESISTANCE MEASUREMENT

- Open circuits
- High resistance connections
- Incorrect wire gauge
- Bad crimps
- Corrosion and contamination
- Loose connections
- Dry joints
- Incorrect components fitted

SHORT CIRCUIT DETECTION & MEASUREMENT

- Short circuit miss-wire
- Damaged cables
- Corrosion and contaminant
- Low voltage isolation failures

CAPACITANCE MEASUREMENT

- Twisted pair
- Shielded cables
- Coax/triax cables
- Capacitors and components

HIGH VOLTAGE INSULATION TEST

- Insulation resistance measurement
- DC HiPot test
- Damaged or degraded insulation
- Faulty materials
- Under-rated materials

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HIGH VOLTAGE HIPOT TEST

- Leakage current measurement
- Flash test
- Dielectric breakdown test
- Damaged or degraded insulation Faulty materials
- Under-rated materials

COMPONENT TESTING

- Diodes / resistors / zenor diodes / transformers / inductors / fuses / breakers / sensors etc

FAULT DIAGNOSTIC CAPABILITIES

- What is the Nature of failure?
- Show me distance to fault
- Which wire is failing your HV test?
- Show me a picture of the failure location
- Give me graphical instructions
- Shows the failures in red on the report
- Displays the measurement changing in real time
- Probe facility to allow me to fault chase



FEATURES & BENEFITS

RUGGED AND PORTABLE FOR IN-THE-FIELD TESTING

- Shock mounted relay boards & measurement modules
- One person carry = truly portable
- Wheels and pull-handle option
- Mains and battery powered options
- Weight <22kg
- Standard size 52cm x39cm x 230cm (other sizes available)
- Robust zero insertion force interface connectors
- Customer specific connectors available
- Splash proof IP65 with lid closed for transportation
- Remote control via rugged tablet (option)

RELIABLE AND ACCURATE

- Integrated self-test and system monitoring
- Automatic calibration (using supplied calibration adaptor)

AUTOMATIC

- Integrated high performance computer
- MKAT Gen3 test management software
- On screen graphical operator guidance
- Optimised for touchscreen operation
- Multi language options
- User login and access control
- Measurement and UUT fault diagnostics
- Automatic report generation and results storage
- Upload results back to base option
- Wireless network capable option
- Remote control via rugged tablet (option)
- USB and LAN interface option
- Guarantees traceability by user, UUT, measured value

MKAT TEST MANAGEMENT SOFTWARE

"From creation of test programs through to fault diagnostics, MKAT supports your business needs whilst giving engineers control over testing."

In our 2022 survey, 87% of our customers said MKAT software was easy to use.

"When combined with our Multibus test module, the Active APG tool provides world leading function test capability."

All MK Test systems run on MKAT, our test management software combining our renowned ease of use with highly advanced technology. It's all driven by our goal of simplifying the test process for our customers.

SIMPLIFYING THE TESTING PROCESS AT EVERY STAGE

Whilst we pride ourselves on the robustness and reliability of our hardware, it is our software which makes our systems stand out from our competitors.

We've spent years developing and refining our software to make it simple to use yet powerful.

CREATING THE TEST PROGRAM

Create a test program without having to learn a programming language. We use standard wiring input of Netlist, connection tables and interface adaptor tables to create test programs.

Test parameters such as current, voltage, resistance and dwell can be set by test, group or connection. Tests are enabled or disabled by simple click of a button.

APG

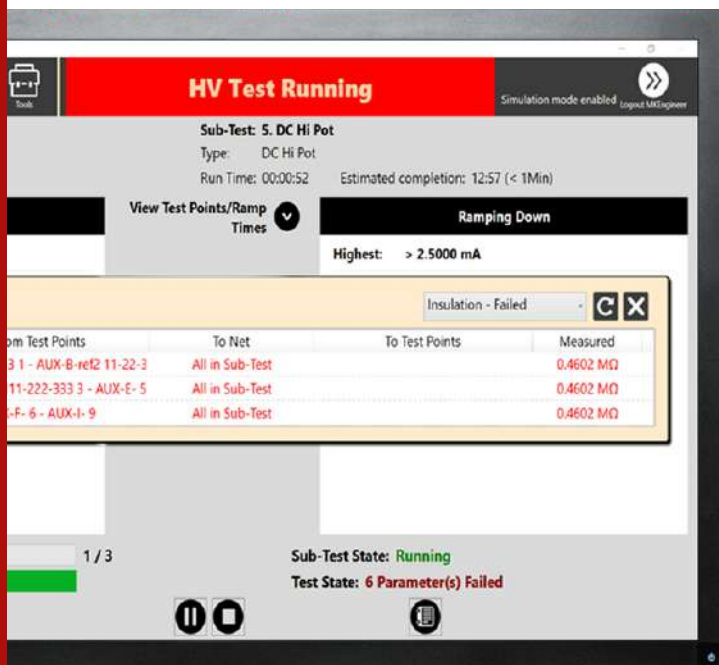
Automatic Program Generation (APG) is included in the MKAT test management software as standard.

Our APG toolset allows the user to re-map fields and use their existing data formats.

EASE OF USE

Creation of the test program is only the start – our software makes the test process simple.

Operator instructions and prompts can be easily added to any program, and automatic test reports and fault diagnosis tools inform the operator of the nature of the failure and how to fix or retest the fault.



ABOUT US

We've been designing and manufacturing automatic electrical test equipment for 30 years. In that time, we've provided systems to customers around the world, in the following industries:



- Aerospace
- Automotive
- Defence (US DoD CAGE code 8EGR1)
- Industrial, Power & Control
- Subsea
- Trains

Our range of products enable rapid, automatic testing of engines, wiring harnesses, slip rings and other vital components.

We can work with you wherever testing is undertaken, at any stage of the product lifecycle. This may be at component manufacture stage - providing quality assurance to subcontractors - or at the final assembly stage, ensuring complete confidence in the final product. Beyond this, we also provide testing solutions for MRO and servicing.

TALK TO US

Our UK head office is supported by satellite locations in the US and Hong Kong. With our large global network of reps and distributors, you can be assured of local support, sales and training.

FOLLOW US



For your local contact details, please visit our website, www.mktest.com.

