

Tyco Electronics GATD announces distribution agreement with MK Test Systems

North Devon, UK. — Tyco Electronics' Global Application Tooling Division (GATD) has signed a distribution agreement with MK Test Systems, the UK-based, leading manufacturer of high voltage automatic test equipment. The agreement will cover MK Test Systems' extensive range of automatic electrical testing solutions, including the advanced AutoMeg I.S. intrinsically safe automatic test system.

Operating in 34 countries worldwide, MK Test Systems has over 20 years' experience in the global aerospace, defense and LRS industries, as well as more diverse sectors demanding guaranteed wiring integrity. The company's extensive product portfolio, coupled with its high level of expertise, makes it an ideal partner in Tyco's drive to develop its presence in the electrical testing sector.

With instant access to Tyco Electronics' highly developed sales and support network, MK will also greatly benefit from the agreement. The company now has the opportunity to significantly increase its presence globally, and deliver enhanced levels of service to new and existing customers.

As Werner Lothmann, Tyco Electronics GATD's Head of Marketing EMEA, India and South America explained, "we are heavily committed to providing total systems solutions to our customers, and our agreement with MK Test Systems will give us access to the most sophisticated test equipment currently available. MK is an extremely experienced manufacturer of electrical test systems and offers the specialist skills required to make a significant contribution to Tyco Electronics' sales effort."

MK Test Systems' marketing director, Jason Evans added, "the opportunity to form such an association with Tyco Electronics is very significant for us. Tyco Electronics' position at the forefront of the electronics industry will provide us with a valuable route to market and an extremely powerful platform for developing sales."

MK's AutoMeg product range offers the full range of Automatic Electrical Testing, including continuity, shorts, resistance, high voltage insulation, hi-pot, capacitance, inductance, impedance, through to full function testing of active components within the electrical or electro-mechanical assembly.

About Tyco Electronics

Tyco Electronics is the world's largest passive electronic components manufacturer; a world leader in cutting-edge wireless, active fiber optic and complete power systems technologies; and is also rapidly developing extensive networking and building technology installation services. Tyco Electronics provides advanced technology products from over forty well-known and respected brands, including Agastat, Alcoswitch, AMP, AMP NETCONNECT, Buchanan, CII, CoEv, Critchley, Elcon, Elo TouchSystems, M/A-COM, Madison Cable, OEG, OneSource Building Technologies, Potter & Brumfield, Raychem, Schrack, Simel and TDI Batteries.

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MK Test Capabilities for Aging Aircraft

PRODUCT FACTS

- ✓ Continuity Testing
- ✓ Resistance Measurement (2 and 4 wire) to 0.001Ω
- ✓ Short circuit testing
- ✓ High Voltage Insulation Testing (typically up to 6,000V DC)
- ✓ Hi Pot test to 3,550v AC
- ✓ Capacitance measurement down to 5 pF
- ✓ Inductance testing
- ✓ 32 to 500,000 test points
- ✓ 50,000 points per sec
- ✓ Function testing of active components
- ✓ Full fault analysis and report generation
- ✓ User friendly Windows software with minimal training required
- ✓ Compact, modular and mobile racking system
- ✓ Produced under a quality system certified to ISO 9001
- ✓ Instant productivity gains and rapid capital recovery

Auto·Meg



MK's AUTOMEG product range offers the full range of automatic electrical testing from continuity, shorts, resistance, high voltage insulation, hip-pot, capacitance, inductance, impedance, through to full function testing of active components within an electrical/electromechanical assembly.

The AutoMeg represents the latest concepts in automatic testing and is used to perform 100% electrical inspection of high specification electrical wiring harnesses and associated systems. Since 1992, MK Test Systems Ltd has installed in excess of 750 AutoMeg systems to 29 countries worldwide. We have built an enviable reputation in the global aerospace, defense and LRS industries as well as the more diverse sectors demanding guaranteed wiring integrity, and are proud to boast many of the world's major corporations among our customers.

Built to your specific requirements, supplied installed and commissioned at your site with no hidden costs, AutoMeg offers you the optimum in quality, accuracy and reliability, the complete turnkey solution.



tyco | Electronics

MK
Test Systems Limited

AutoMeg I.S

Intrinsically Safe Automatic Test System



Certified EEx [ia IIC] EN50020, BS5501

The **AutoMeg I.S** offers the many benefits of Automatic PC controlled Electrical testing, in this intrinsically safe system designed and built to meet the worlds most demanding certification requirements.

Intrinsically Safe?...Yes! MK Test stands alone in today's wire harness test market. MK Test offers the **ONLY** intrinsically safe automatic test system available today, the **AutoMeg I.S**. Originally developed for testing fueled aircraft engines, additional applications include missile and torpedo warhead testing.

The AutoMeg represents the latest concepts in automatic testing and is used to perform 10% electrical inspection of high specification electrical wiring harnesses and associated systems.

The **AutoMeg I.S** is yet another first in the industry. Intrinsically safe electrical testing has until now been the domain of manual, hand-held ohmmeters and meggers.

AutoMeg I.S is a multi test-point, fully automatically switching, PC controlled test system that will test, log and report on the electrical integrity of the most complex electrical systems in the most demanding of environments, at up to 50000 test points per second.

Intrinsic Safety — Ex protection type 'i'. (EN50020, BS5501 Part 7).

"Equipment for use in a hazardous area in which an explosive gas atmosphere is or is likely to be present".

Mechanical Shock Protection to MIL-STD-810E method 516.4

Vibration Protection to MIL-STD-810E method 514.4

- ✓ Robust enclosure suitable for Field deployment in military environment
- ✓ 4 wire continuity — measurement to 0.001Ω
- ✓ 200v DC testing to 200MΩ
- ✓ Safety Interlock
- ✓ High speed relays
- ✓ Can be configured to suit specific testing requirements
- ✓ Highlights previously undetectable faults
- ✓ Increased scope of tests
- ✓ User-friendly Windows software with minimal training required
- ✓ Ultra reliable
- ✓ Instant productivity gains and rapid capital recovery
- ✓ Reduced tooling / interface costs

Originally designed and supplied to test the Fueled Engines of the Eurofighter Typhoon, the **AutoMeg I.S** Test System has taken controlled, safe, accurate automatic testing into previously untouched territory...opening up the benefits of automatic testing to areas such as fueled vehicles and aircraft, missile and torpedo warheads, oilfield control systems.



In testament to the product, ITP, Manufacturer of the EJ200 jet engine is supplying the **AutoMeg I.S** test system to the worlds Air Forces as an OEM recommended Aircraft engine testing tool.

AMP, AMP NETCONNECT and TYCO are trademarks.
Windows is a registered trademark of Microsoft Corporation.

AM4-0021 AutoMeg I.S

Intrinsically Safe Automatic Test System

AGING WIRING?

The ability to test effectively from one end of a wiring harness is a subject of ongoing study in MK Test Systems. We are working with a number of customers on solutions to allow testing of relatively complex harnesses while those harnesses remain installed on the UUT.

The ability to run the full range of electrical integrity tests from one end of the harness is of course, a prime issue in this program. MK Test Systems is running an ongoing study and development program in an effort to improve upon the currently available results when using TDR type technology through a switching matrix, and have made significant moves forward in increasing the accuracy of such results by effectively by-passing the matrix while still offering the benefits of automatic testing.

We would be pleased to hear from any parties running similar development programs or prospective users who would wish to contribute to the technical studies which are ongoing.



Shock and vibration resistant military casing



Industrial, toughened engineering plastic carry case

ELECTRICAL

Supply 25-30VDC

MECHANICAL

Enclosure Material Aluminum
 Mechanical Shock Built to meet requirements of MIL-STD-810E method 516.4. Procedures I, IV, VI and VII
 Vibration Built to meet requirements of MIL-STD-810E method 514.4. Categories 1, 3 and 8
 Mounting Designed for installation into 19" racking system
 Weight <10kg
 Finish Two Pack Epoxy Stoving Enamel Coating RAL 6031F9 (Green Olive Mat)

MEASUREMENT

Continuity 5mA to 1000mA
 DC Insulation Programmable Ramp, Pre-Dwell and Dwell times, 25V to 200V

INTERFACE

64 off 4 wire (Kelvin) Test points
 Connection via JN1003B2435SN connector
 All other connectors to MIL-C-24308 or MIL-C-5015

Note: The **AutoMeg I.S** system can be supplied with any number of test points in multiples of 32.
 Front end connectors can be specified to suit application.