



AUTOMOTIVE NEWSLETTER

NEWS & FACTS FROM THE KT AUTOMOTIVE – WORLD

WELCOME TO THE Spring Edition

Come In We're Open!

Budget constraints, reduced or postponed investments, or belt-tightening! Does that sound familiar to you these days? And then there are these sales guys from all these suppliers who are calling every week to find out when you start placing orders again. Are you tired of finding new excuses every time they call? So why don't you turn the table? Why don't you use the current crisis to approach your suppliers in a pro-active way and ask them to visit you to discuss your future testing needs independent from current investment plans? Or do you think that nobody will be interested in such a discussion without an approved budget behind it? Not so KT Automotive! We are willing to advise you on your future testing requirements. We are willing to analyze together with you your current testing processes and work with you on optimized concepts for the future without asking for compensation. Why are we doing this?

- Because we believe that we need to stay together with our customers in these difficult times
- Because we know that we will survive the crisis and that there will be a strong demand for testing equipment after the crisis

- Because we want now to pave the road for our future success
- Because we have fascinating new hard- and software solutions that will help our customers to optimize their testing processes in the future
- Because we have developed new service and support concepts that will help our customers to save money
- Because we want to re-emphasize our role as a partner for the crash test community
- Because we love to talk to our customers about crash testing!

So please do not hesitate to contact us and to ask us to discuss your testing requirements or – with other words – Come in we're open!

NEW PRODUCT

nxt32 Onboard Interface –
Successful Product launch

The JSAE Exhibition in Yokohama, Japan was the perfect place for the first presentation of the new nxt32 Onboard Interface. Customers have shown great interest in the very small and flexible Onboard Data Acquisition Unit.

Based on the nxt32, the Onboard Interface provides connections for 32 analog channels available with LEMO/ODU connectors (size1). This together with 16 Digital Channel and Trigger Inputs (Start Recording and T-zero) provides all the necessary connections for crash tests. The Crashlink2, available via LEMO/ODU connectors (size2), provide Power, Ethernet and Triggerbus signals. Additional Onboard Interface units can easily be daisy chained.

CONTINUED ON PAGE 2 ...



Gerhard Haas is presenting the nxt32 Onboard Interface at the JSAE



This solution, which is fully compatible with the MINIDAU Crashlink1, fits perfectly with the existing KT Automotive product line.

A very small footprint of 64x210mm allows placing 128 channels in a area smaller than a piece of A4 paper. The box is approximately 60mm tall.

The Onboard Interface contains only a few electronic components inside. Mainly flexible circuit boards to connect the analog signals to the small nxt32.

All functionality, including the battery, is integrated in the small nxt32 box. The nxt32 can be taken out and swapped between different Onboard Interface or used for IN-Dummy applications!

The capacity of the battery in the nxt32 allows for operation of over 15 minutes!



Features of the nxt32 Onboard Interface:

- | | |
|-----------------------------------|--|
| 32 analog Input channels | Footprint 64 x 210 mm |
| Fully ruggedized design | Trigger input for Start Recording and T-zero |
| Mass/channel appr. 45 gr | Daisy Chain |
| nxt32 removable | Signal bandwidth 42.5 kHz |
| Exceeds SAE J211 and ISO6487 | Sensor ID verification |
| Programmable bridge completion | 0 - 5 V bridge excitation (adjustable) |
| Sense line for Excitation Voltage | Digital and analog triggers |

- 16 Digital Inputs available on connector (Lemo/ODU size2)
- Compatible to KT Automotive centralized, distributed and hybrid In Dummy applications
- 32 analog channels @ 100 kHz @ 100 sec
- Emergency Lion battery for over 15 minutes run time
- Non volatile flash data memory for a maximum of data security
- CrashLink2 interface for seamless integration into Minidau® Product line
- CrashDesigner and AutoLab compatible
- Twisted pair Ethernet for 10 / 100 / 1000 Mbit host interfaces

nxt32 Options

The new nxt32 Onboard Interface provides as an Option a wireless LAN Interface. Upon request this wireless LAN Module can be integrated in a separated Box or even integrated in the new Onboard Interface!

An extension of the current battery capacity to over 40 minutes is possible by an integration of an additional battery cell. The battery will be integrated in the Onboard Interface without extending the current size!

The nxt32 contains a CAN Bus Interface which allows the recording of CAN Bus information during the Crash Test, synchronized to T-zero.



NEW EXTENDED SERVICES

Dummy certification and Sensor calibration now offered by KT-Automotive

Since August 2008, KT Automotive has been operating the dummy calibration lab at BMW in Munich. After 9 months of running the lab, KT Automotive has provided the certification and preparation of over 400 dummies for BMW crash tests.

Since the beginning of 2009, KT Automotive has also provided the services to run the sensor calibration lab at BMW. Over 300 sensor axes have been calibrated.

This service is now available for all users of crash test dummies and sensors. KT Automotive is offering the full service of certifying dummies and calibrating sensors.

The sensor calibration lab provides services for the calibration of acceleration, force, moment and displacement transducers.

KT Automotive is looking forward to provide a proposal for following services:

Following Dummies can be certified:

- HIII 5th, 50th and 95th
- HIII 3Year and 6Year
- ES-2/ ES-2re
- US SID
- SIDIIs BL C/D

Following Sensors can be calibrated:

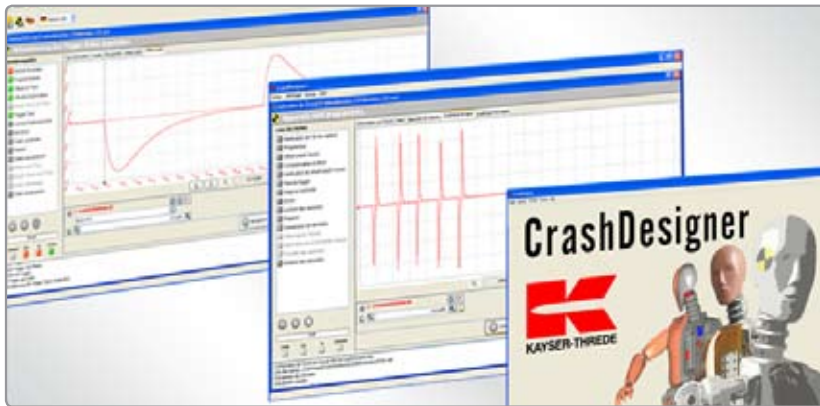
- Acceleration
- Forces
- Moments
- Displacement

IN-Dummy competence:

- nxt IN-Dummy calibration centre (full service available on one site)
- Integration of nxt32 and Microdau® for distributed, centralized and hybrid IN-Dummy solutions

Additional Services:

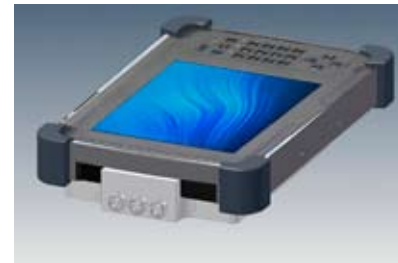
- Sensor cabling
- Rental of Minidau, nxt32 Onboard IF and nxt IN-Dummies
- Shuttle Service for sensors and dummies



NEW PRODUCT

Sensor Test Device

KT Automotive is now providing a new sensor test device integrated into a Tablet PC. This one channel system provides Bridge supplies for 2.5V, 5V and 10V at a max. sensor current of 40mA and a signal accuracy of 0.5%.



The system is able to measure the total resistance of the sensor bridge as well as the sensor offset. It checks for shorts between each of the Excitation, Signal and Sense lines as well as against shield of cable.

A dynamic check is possible via an online display of the signal on the high resolution screen. The application allows the user to offset and visualize the sensor signal in order to indicate bad signals caused by intermittent cable breaks.

The Application allows the user to exchange sensor data with CrashDesigner and to download a snapshot of the sensor database during offline processes.

The system will be available NOW. For more information please contact KT Automotive.

SOFTWARE

CRASHDESIGNER Version 2.5 – New Features available

The latest Version of CrashDesigner is now available. New features provide more possibilities to improve crash test processing for a savings of both time and money.

Support of ISOMME 1.5 (possibility to import and export ISOMME data)

Support of third order polynomials according SAEJ2517 for H3 chest potentiometer calibration procedure

Full flexibility by using grouping, filtering and sorting features (i.e. sorting by calibration date)

New Wizard “Combine Sensor axes” allows an improved handling of sensors imported from other sensor databases.

Extended settings for recording CAN Bus channels

“Broadcast of Dummies and channel groups” allows the import of channels in the database by readout the Sensor information (TEDS) stored in the IN-Dummy Sensor or Sensor ID.

“Undo” and extended “Copy” functionality.

Improved reporting.

Improved update of Webstart functionality allows independent start of CrashDesigner directly from Server.

Integrated authentication modules allows access management.

Offline graph allows calculation of channels, additional curves showing integrals. e.g. velocity calculated from acceleration data.

Offline graph allows Software offset adjustments.

and more....