

# @-contact

## Topics

### Short notices/Preview of fairs

- Previews

### Products

- New: touchM industrial keyboard series with capacitive sensing technology in Hygienic Design
- "The Economic Solution" - new in the ME series: OEM-Transmitter

### News & Views

- Another commercial line under the roof of the mmc AG: "Müller Fahrzeug-Technik GmbH"
- 24-h-Support-Service
- New Product overview: Vehicle Control Systems

### Application

- Müller Industrie-Elektronik: Customized MELS-F level sensor for water tank level monitoring of fire extinguishing systems from CALAN-BAU fire protection solutions GmbH

### Fairs & Event

- View on the topical highlights of HANOVER FAIR 2011

### International

- Preview of international fairs
- CompetenceDays 2011 - Representatives Meeting

**MÜLLER**  
INDUSTRIE - ELEKTRONIK GMBH

**BUDERUS**  
Elektro & Blitzschutz

## Editorial



### Hanover moves something...

At the beginning of April it is again so far - the most important technology event of the year - the HANOVER FAIR opens their gates from 04. - 08. April with professionals and companies from 71 countries and presents know-how as branchspreading overview, the latest technical developments and conduct as indicator to the current economic mood. As a manufacturer of equipment for

measurement and control technology for the automation and the process industry, Müller Industrie-Elektronik GmbH is naturally represented as exhibitor at the fair.

This @-contact edition is dedicated to the event. We give you a small view on the products, which we will present in detail on our exhibition booth. Look forward to the innovations and developments of Müller Industrie-Elektronik GmbH, talk to us about your electronic needs - together we will find the right solution!

**We look forward to you - this year in the newly designed exhibition area of process automation in Hall 11 Booth B34 / 1!**

Enjoy reading!  
Yours Anja Mühe

Public Relations  
- mmc AG -

## Short notices

### Important Appointments in 2011 Müller Industrie-Elektronik:

**Representative Meeting**  
01. - 03. April 2011  
at Neustadt am Rübenberge

**Customer-CompetenceDay 2011**  
at 15. September 2011  
at Neustadt am Rübenberge

**AutumnEvent 2011  
Clay pigeon shooting**  
MIE: at 16. September 2011  
Buderus: at 23. September 2011

**Training-Workshop 2011  
with cooperation partners**  
from 26. - 27. October 2011

## Preview of fairs

### HANNOVER MESSE

Exhibitor:  
Müller Industrie-Elektronik  
from 4. - 8. April 2011



### SHOW TECH at Berlin

Partner: TTS  
from 7. - 9. June 2011



### AgriTechnica at Hannover

Exhibitor:  
Müller Industrie-Elektronik  
from 13. - 19. November 2011



### Local fair Robby at Neustadt am Rübenberge

Exhibitor:  
Buderus Services GmbH  
from 16. - 17. April 2011

## New: touchM industrial keyboard series with capacitive sensing technology in Hygienic Design

Müller Industrie-Elektronik GmbH developed industrial keyboards with capacitive sensing technology in Hygienic Design for hygienic controlling and data input to meet the demands of high hygienic standards within process- and manufacturing industry and for the application in harsh industrial surroundings.

The capacitive touchM sensing technology is the basis for the encapsulated keyboard surface, consisting of dirty-repellent LG HI-MACS acrylic stone. This acrylic stone is effectually tested at Müller Industrie-Elektronik in different touchM-control devices. The material has been approved for the LGA seal "hygiene tested" and the NSF standards, generally accepted norms for a variety of public health related industries and fields. The industrial keyboards made of this material feature with a contamination resistant and hermetic close surface, cleanable with aggressive disinfectants. Customized requirements



in respect of design, usability and construction have top priority. OEM-versions made of materials such as glass, mineral glass and solid wood are likely to follow.

### Capacitive control element completely protected

The capacitive touchM sensing technology developed by Müller Industrie-Elektronik is the basis for the encapsulated keyboard surface. The keyboard is made up of a conductor plate connected via conductive paths with diverse sensor-elements and the evaluation electronics. The assembly and the quantity of the sensors define the position of key fields and offer a certain flexibility concerning input option. After connec-



tion of the capacitive keyboard with a computer, the sensors trigger an electrical field. If a finger is modifying this field, there inevitably is a change in capacity. This change of the electrical field is the basis to generate and trigger a signal and to transmit it to the evaluation electronics. Compared to conventional switch-keys, the capacitive ones are absolute non-expendable.

### The sensitivity is individually adjustable

It is possible to adjust the sensitivity of switch-keys on customers demands such as good usability with protective gloves. As an option, input fields can be realized with a tactile, acoustic or optic feedback signal.

### Diverse mounting options

The industrial keyboards are Windows compatible and fitted up with USB- and PS/2-connection as a standard. Different layouts from desk version to front panel version for the integration into 19-inch-racks up to diverse mounting types are available. The application of these layouts offers a high flexibility, because via USB- or PS/2-interface the

keyboard can be connected mobile to other systems. As an assembly mounting type with plug connectors, there is a front panel version for the integration in 19-inch-racks or panel-mounting available, possible for frontal or rearward mounting.



### High protection class

All types of the industrial keyboard series are completely closed, maintain protection class IP67 and are working reliably in temperature range from -10 °C up to +50 °C.

*TouchM*

For more information [please click here!](#)

**ME series: Modular Economic Sensors**  
**New: OEM-Transmitter - the Economic Solution!**

**„The market demands electronic solutions that offer a cost-conscious maximum of effectivity!“**

After successful introduction of an HART-enabled transmitter particularly developed for the ME sensor series, Müller Industrie-Elektronik, offers as further step **the HART-enabled ME-Transmitter now available as OEM version** (Original Equipment Manufacturer) for companies, which would like to realize their own series products on close resources limits. The Experts of the Müller Industrie-Elektronik GmbH have the practicable know-how of many years and are competent partners in all matters relating to the “electronics” and that for almost every industry within the manufacturing and process automation.



Effectiveness requires customized solutions. Müller Industrie-Elektronik GmbH supports its customers from consulting, through the custom development to the finished series production in in-house corporate design and also available on-site assembly.

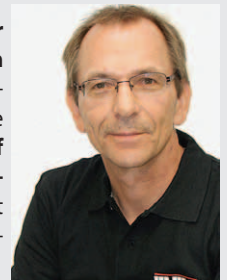


**The transmitter offers many advantages as OEM version:**

- Possible inputs: RTD, thermocouple element, Piezo, PWM
- Current signal: 4 .. 20 mA with 2-wire current loop and superimposed HART communication signal
- Configurable limit contacts
- Material: stainless steel 1.4571 (the sensor)
- Sensor connection: customer-specific mechanical adaptation is possible
- Electrical connection: All common connector types are available
- The connection is via a JST plug
- Display: 7 segment, integrated 4-digit display and mirrorable around 180°
- Display head can rotate by 330° for overhead installation
- Protection class: IP 65

- Setting over 3 buttons with touchM technology
- Customer-specific scale production including color design, printing, or writing in the house colors of the customer realizable

**Project manager Udo Johannsson** advises you personally about the **possibilities of OEM manufacturing industry** at Müller Industrie-Elektronik GmbH.



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The electrical connection options of the OEM transmitter

News & Views



**24-h-Support-service - an additional service of Müller Industrie-Elektronik GmbH**

Failures, emergencies and technical problems do not stick to normal business hours.

Therefore Müller Industrie-Elektronik GmbH offers a flexible 24 hours support service for their customers with technical problems, reachable under the telephone hotline:

**Tel.: +49 (0) 178 – 940 12 12**

## Customized MELS-F level sensor for water tank level monitoring of fire extinguishing systems from CALANBAU Fire Protection Solutions

The setting of tasks for the CALANBAU Fire Protection Solutions GmbH, a leading company for fire protection systems, nationwide with 450 employees and eight subsidiaries, consisted first, to submit an alternative offer for a previously used level indicator. After having examined the specimen, first ideas for the optimization of the indicator were created by Müller Industrie-Elektronik immediately. On the spot a new OEM-prefabricated prototype has been developed with the modular components of the ME-Series for the Calanbau Fire Protection Solutions GmbH.

### Effective fire protection requires tailor-made solutions:

The modular variety of the ME series offered some advantages for this customized application: not only the cost savings through the use of less expensive housing of the ME series with individual design possibility of the housing head, but also the flexible connection type, both over plug connectors and over fixed cable exit, could convince the customer. The level sensor operates with two changeover contacts according to the minimum/maximum functional principle with falling and/or rising level



Water tank level monitoring with customized MELS-F level sensor.

of the extinguishing water in the tank. After a successful test phase of the new prototype for water tank level monitoring of fire extinguishing systems at Calanbau on site, the series production for the Calanbau Fire Protection Solutions GmbH could start at the beginning of 2011, after a further small modification of the standard float diameter, which had to be adapted on the existing conditions.

For further technical details of the standard level sensor MELS-F of the ME series, [please click here.](#)



If you are interested in effective fire protection solutions, please click the link to the website:

[www.fire-protection-solutions.com](http://www.fire-protection-solutions.com)



## Another commercial line under the roof of the mmc AG

As a logical development of the company group Matthias Müller has expanded the mmc AG in early 2011 by the:

# MÜLLER

FAHRZEUG-TECHNIK GMBH

The goal is to configure this new commercial line at the same site as the company Müller Industrie-Elektronik first, and to focus on customer-specific projects, in particular from the automotive industry.

Especially in the automotive industry there is an increased demand for customized solutions recorded, which, according to managing director Matthias Müller cannot be simply integrated in the working processes of the Müller Industrie-Elektronik GmbH by its nature of complexity.



It's not just about projects around the electronics industry, but also to take on the complete series production of certain components. In the field of total vehicle-technology industry ranging from passenger cars, on boats, special vehicles up to aircraft building, there are promising developments and lots of customer contacts, Matthias Müller led to this step of the new creation. The new commercial line will provide interesting opportunities for the mmc AG in the future.

## View on the topical highlights of HANOVER FAIR 2011

With professional attendees and enterprises from 71 countries the HANOVER fair is the world-wide most important technology Event. Under the **guidance topic „Smart Efficiency“** you can find from 4th to 8th of April 2011 all sectors of the industry under one roof. There will be more than 4,000 innovations presented and future trends generated!

### Leading Trade Fair with a new hall concept

In order to create still more proximity to the energy industry, the entire exhibition area of the process automation moved into hall 11. With this move the process automation is getting closer to the trade fair "energy" in halls 12, 13 and 27. From these synergies exhibitor and visitors will benefit.

### Competition at the exhibition booth

In addition to the topical highlights you can expect an attractive competition at the booth of Müller Industrie-Elektronik. Win daily on the booth: Process calibrator PC-HA as current and voltage source!

## The topical highlights:

- ME series:  
Now available with HART communication and ME transmitter as OEM version
- Radio technology:  
New development of the handheld PC WPC-XX as a handheld version with built-in printer
- New development:  
touchM industrial keyboard series with capacitive sensing technology in hygienic design
- Further development:  
Product family of low-cost head transmitter
- LED large display SlimLine - now in various sizes
- Product groups extension:  
Diversity of DIN Rail devices
- New development:  
Universal device HART modem DEV-HM for programming, setting and data analysis for devices with HART integration



### Get your free exhibition ticket by e-Ticket code!

Use our fast and for you free e-ticket service via the following link:



Alternatively we can send you the tickets by post too.

**Müller Industrie-Elektronik: Hall 11, booth B34 / 1 and in cooperation with the EZN Hall 2, booth A23/25**

We look forward to your visit!

If you want, you can arrange an appointment for a specific day of the fair in advance by e-mail:

[marketing@mueller-ie.com](mailto:marketing@mueller-ie.com)



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## International

### Representatives - CompetenceDays in the castle Landestrost from 1st to 3rd of April 2011

The weekend before the Hanover Fair, the international representatives meeting takes place and again it is



all about cutting-edge technologies, innovations, developments, know-how for the practice and lots of experience. Registration is still possible:  
[marketing@mueller-ie.com](mailto:marketing@mueller-ie.com)

### International Trade Fair dates 2011

An overview of the international fairs and exhibitions of our country representatives can be found [here](#).

## News & Views

### New Product Overview: Vehicle Control Systems

Click on the title page for the download the brochure!



The order form with the overview of all available product overviews, you can download [here!](#)