INSIGHT

PERFECT TOUCH

ALGRA GROUP



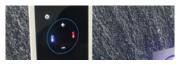
Dear Business Partner,

We have greatly expanded our product portfolio and made an impressive mark at this year's electronica exhibition in Munich. This expansion has been made possible through the collaboration between our companies under the umbrella of the Algra Group, which now also includes our cooperation partner Trimada AG, based in Wohlen, Switzerland. The close networking between the companies makes cooperation efficient and streamlined. Ultimately, we want to offer you the best performance and expertise. Breaking with our past practices, we will also now handle technologies and products that are not from the Alga Group, in order to bring our customers the best the world has to offer. At the same time, we will focus on those areas in which we have the most experience and expertise. This means that products from third-party manufacturers will undergo sound, qualified testing before we recommend them to our customers.

We are excited about the progress we have made in 2016 in terms of our status as a customer-oriented, market-driven company. Many thanks for the successful collaboration! It will be a pleasure for us to continue to serve, advise and supply products to you in the coming year. We hope you have a happy festive holiday and wish you all the best in 2017!



Contents of this issue **Autumn 2016**



All-round systems supplier







DYNAPIC® WIRELESS Presenter





ALGRA NDT technology



Glass PCAP front

ALGRA industrial technology

gravuretec precision works

connect tec worldwide technologies



A host of technologies at electronica 2016

The Algra Group showcased many attractions that brought plenty of interested visitors to this year's exhibition, including a high-end shower featuring our DYNASIM[®] piezo technology. In addition to the established piezo input systems, we presented other interesting control system innovations, such as the strain gauge-based input for metallic surfaces up to 1 mm.

The Algra Group also announced some new additions to the classic piezo keyboards: a peeland-stick version of DYNASIM[®] is the first of its kind in the world. Visitors to the trade fair booth had the opportunity to get their hands on it right away.

The Algra Group has developed to become a system provider: with our partner Trimada AG, we now also develop electronics and offer PCB assembly. We are excited to present our innovations and product range extensions.



'Together with cooperation partner Trimada AG, Algra Group AG has transformed into an all-round systems supplier.'



Algra AG

Piezo or Algra NDT-based input system. Plates and fronts made of aluminium, foil, or plastic panels. Extensive assembly options. Industrial processes.

gravuretec sa

Sleek aluminium casings, milled or bent. We cover the entire valueadded chain in-house, including grinding, glass bead blasting, anodising and much more.

connect tec AG

Membrane, PCAP, capacitive, resistive input systems. Casing parts made with plastic injection moulding. Die-cast aluminium. Piezo components of all kinds, including comprehensive consulting.

Trimada AG

Electronics development and PCB assembly.

NEW: 'DYNASIM[®] PEEL-AND-STICK – installation of a piezo keyboard has never been easier.'

NEW: 'The DYNAPIC®

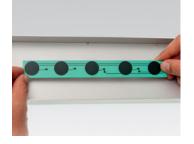
Presenter lets you scroll

back and forth through

presentations without

batteries.'

WIRELESS-2-Key





NEW: 'DYNAPIC[®] with haptic feedback makes key pressure a sensory experience.'



Peel off the protective film, stick it on, connect, done! Installation of a DYNASIM[®] keyboard has never been easier. Customers can do it themselves on-site if needed. The piezo generates an electrical signal when a button is pressed. The

The 2-Key Presenter has an ultra-thin battery-free switch with a transmitter, two up/down keys, a USB receiver for scrolling through presentations and much more. No cable, no battery! The energy for the signal transmission is gener-

DYNAPIC[®] with haptic feedback is a solution developed with our cooperation partner Aito BV and makes pressing a key a sensory experience. The built-in piezo disc detects the gentle keystrokes and reacts with a haptic movement,

ALGRA NDT technology is pathless just like piezo input systems, but extremely sensitive even with thick metal input fronts. The solution uses strain gauges and can be combined with a complete range of front materials. Stain-

Peel off the protective film, stick it DYNASIM[®] sensor film is glued to a on, connect, done! Installation of plastic panel.

ated by the push-button pressure - that's piezo power! The solution was developed using DYNAPIC® WIRELESS technology.

giving the feel of a mechanical key. The advantages of piezo input devices have not changed: homogeneous surfaces, no edges, no openings or gaps. Any surface material can be used.

less steel fronts with a material thickness of 0.8 mm can be easily transformed into metal touch devices. Customers can attach these modules themselves using the simple peel-and-stick system.

and with gloves. This touch input solution can be combined with a display.

an ultra-thin, stacked-layer piezo element made with state-of-theart technology. In the image, piezo parts in water form tiny water droplets that appear as mist.

NEW: 'Keyboards with ALGRA NDT metal touch technology are incredibly sensitive to the touch, yet interference-resistant.'

NEW: 'The glass PCAP input system is as easy to use as a smartphone.'

'Piezo components: connect tec AG provides a comprehensive range of products for countless applications.'





Use the projected capacitive touchscreen (PCAP) front with multi-layer composite structure to make input just as easy as with a smartphone. Advantages: excellent transparency, anti-reflection coating, chip-onflex. Also works in wet conditions

Together with connect tec AG, the Algra Group offers a comprehensive portfolio, including consulting on piezo components – no matter whether it's a standard film made with cast technology, an isostatically sintered mass product or even

Impressions from electronica 2016



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EINGABESYSTEME CLAVIER/KEYBOARDS INPUT SYSTEMS PIEZOTECHNOLOGY FRONTS&PLATES SIGN/INPUT/CASE FRONTEN/PANNEAUX TASTATUREN CUSTOMIZED SOLUTION SCHILDER



gravuretec precision works connect tec worldwide technologies TRIMADA electronic systems