

INSIGHT

ALGRA GROUP

PERFECT TOUCH



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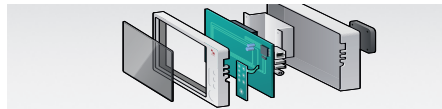
Summer 2018



One-of-a-kind flat keyboards



Battery-free remote switch



365° system manufacturer



Preview SINDEX 2018

Dear Business Partner,

We have been making metal touch input systems for nearly 40 years, yet we still declare them as brilliant new products: they are better than ever and also simpler and more stable. And another thing: batteries are everywhere these days – but we've moved away from them to develop a remote control that works entirely without batteries. Isn't that a great idea?

We look forward to showing you our new products at the SINDEX trade fair in Bern and the electronica in Munich. Touch, feel and experience our products – you still can't do that on the internet. Please feel free to visit us at the trade fairs or at our locations in Merenschwand and Erlach. We're looking forward to it.

And one last thing: we also make signs, fronts and entire casings.

Kind regards,

Dieter Matter
CEO



ALGRA
industrial technology

gravuretec
precision works

connect tec
worldwide technologies

TRIMADA
electronic systems

ONE-OF-A-KIND FLAT KEYBOARDS



Flat keyboards are characterised by their small installation depth. Typical of these are membrane keyboards with metal domes for haptic feedback. With our piezo keys, we make it possible to design metallic surfaces as pressure-sensitive inputs.

The DYNASENSE and DYNAFORCE products are new in our range. They combine decades of experience with piezoresistive-based modern technology.



The options for a unique design are tremendous thanks to the use of a wide variety of materials with maximum operating comfort. We would also be happy to create vandal-proof and weatherproof keyboards for you.

Comparing flat keyboards

The Algra Group offers various flat keyboards. Learn more about which one might be best for you. Our Algra Group specialists would be happy to advise you.

Criteria	DYNAFORCE	DYNASENSE	Membrane	PCAP TOUCH (Projected Capacitive Touch)
Material/thickness:	Plastic: 1–2 mm Aluminium: 0.3–1.2 mm Stainless steel: 0.3–1 mm Glass: 0.5–1 mm	Plastic: 0.15– 2 mm	Plastic films: 0.2 mm (typically)	Glass: 1–6 mm
Total thickness without top layer:	1.4 mm incl. PCB assembly	0.5 mm (base plate extra)	0.5 mm (base plate extra)	0.5–2 mm
Durability:	Excellent	Very good	Good	Very good
Design possibilities:	Excellent	Very good	Good	Very good
Outstanding features:	<ul style="list-style-type: none"> • Suitable for stainless steel fronts • Key pressure can be set • Very sensitive • Outstanding tactile feel • Long key pressure • Temperate range of –40°C to +85°C 	<ul style="list-style-type: none"> • Extremely robust • Very simple key evaluation • Long key pressure • Temperate range of –40°C to +100°C 	<ul style="list-style-type: none"> • Tactile feedback thanks to metal dome • Simple key evaluation 	<ul style="list-style-type: none"> • Flexible key arrangement • Ideal with touch display • Circuitry through thick glass plates • Supports swipe gestures with wake function • Temperate range of –20°C to +70°C

NO. 1

'The world's first piezo key for wireless, interactive solutions without batteries – the focus is on ecology.'

BATTERY-FREE REMOTE SWITCH

Our DYNAPIC WIRELESS® remote switch without batteries supplies intelligent objects with intelligent energy. A 0.3 mm thick piezo pad triggers the switching functions, and the button signal is transmitted to the receiver through a cordless transmission.

The energy for the wireless signal is generated by the piezo button with finger press only and contains almost no mechanical components. The technology opens up a wide range of applications and new design freedom, be it in home automation, household appliances, access systems, toys, industrial applications and much more.

Advantages: just 2.7 mm thick, no battery, robust, high lifetime, cost effective, compact harvester, designer friendly, easy sealing, no audible click, with and without haptic feedback – the thinnest, most robust and longest lasting wireless push buttons on the market.



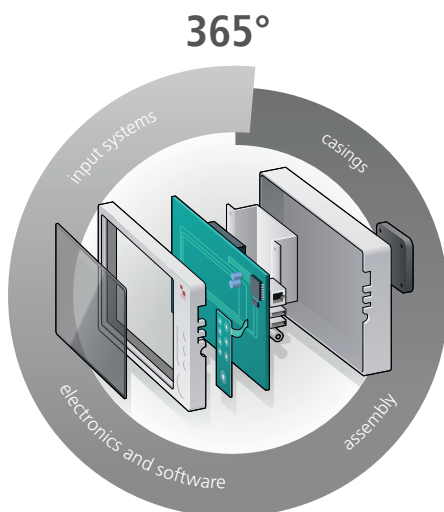
365° SYSTEM MANUFACTURER

We offer customer-specific end-to-end solutions for systems – so you get everything from a single source. Algra Group produces and assembles input systems, front panels, casing parts and electronics, providing you with finished, quality products.

Our circle has 365 degrees – because with us, you get a little more than just the products. We also offer:

- extensive testing and qualifications of our products, as well as products from third-party manufacturers
- comprehensive consulting for the best possible implementation of technologies for top products

Take advantage of the benefits resulting from our 365° offer. Give us a call – our engineers would be happy to assist you.

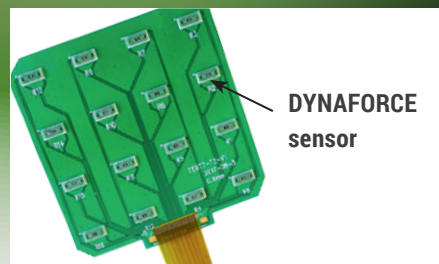


METAL TOUCH CONTROL PANELS AT SINDEX

We are demonstrating the DYNAFORCE input system at SINDEX 2018. A real highlight. Metal touch detection with extremely sensitive metal touch sensors is easier than ever.

Alongside our 365° products, our unique DYNASENSE resistive keyboards and our PCAP touchscreen are causing a sensation at SINDEX 2018. The former can be seen in use in a rental bike, the latter in the form of a state-of-the-art coffee machine. You will also be pleasantly surprised by our standard range of casings, industrial signs and fronts.

The Algra Group sales team is already looking forward to welcoming you and advising you at **Stand B14 in Hall 2.2**.



28 - 30
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BERNE

SINDEX
THE BENCHMARK FOR TECHNOLOGY

Stand B14 / Hall 2.2

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

ALGRA GROUP

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