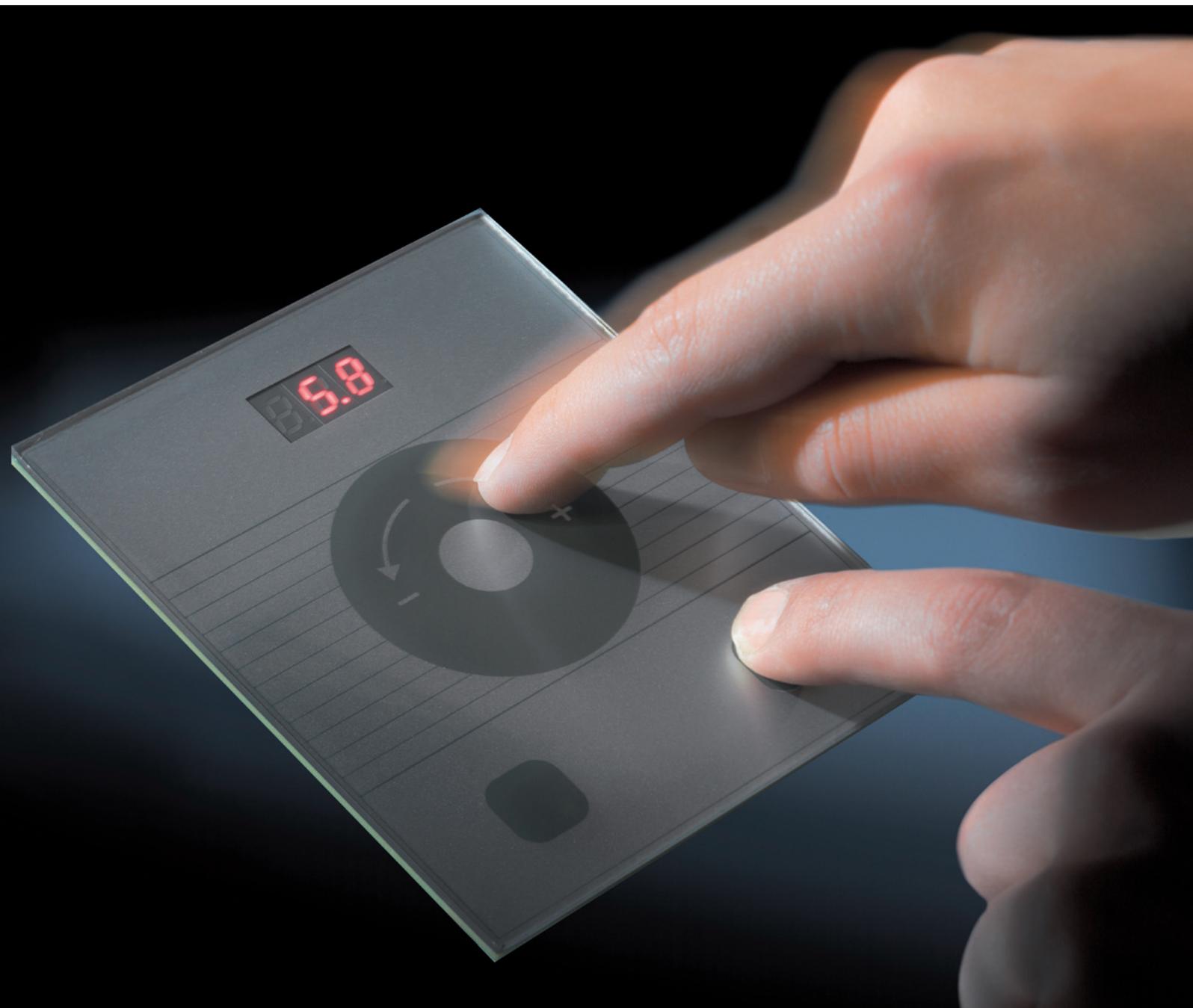


CASE STUDY

Capacitive keyboards in action

Input and control systems for the food processing industry





THE REQUIREMENTS

The Brabender® GmbH & Co. KG develops, produces and markets equipment and machinery to monitor quality control and physical attributes for businesses in the food processing industry.

Reliable and easy to operate input and control units were needed for the development of new conveyor machinery and equipment for sample preparation, crop receiving and quality control. In order to ensure a clean and for sanitary operating conditions perfect environment, these controls were to feature a fully sealed and chemical resistant surface.

THE IMPLEMENTATION

The capacitive keyboards at Hoffmann + Krippner provide best qualifications for the particular applications of industrial food processing environments in order to fulfill the requirements of a robust yet easy to clean control unit. Capacitive systems can be optionally incorporated behind glass, plastic, or other non-conductive surfaces and are thus protected from acids, dirt and other miscellaneous contaminations.

Operation is possible with only a light contact on the flat surface. A capacitive rotary encoder identifies and then directly transfers actuation signals to the machine control through an interface. The digital display can be freely programmed in order to ensure individual assignment of diverse measurement parameters.

The individual tolerance values are manipulated by activating a confirmation button and then adjusted according to current task requirements. In order to prevent operating errors, the control unit must be operated using both hands. Possible interferences and external influences are identified and consequently eliminated by the processor and the associated software. Visual and/or acoustic indicators compensate for the missing tactile feedback capacitive displays are known for.

THE RESULT

The compact, space-saving construction of capacitive keyboards from Hoffmann + Krippner are the perfect solution for control units with specific, particularly flat design requirements. Mechanical wear at the contacts does not occur. The fast and easy cleaning ensures compliance with maximum hygiene standards as well as remarkable chemical resistance when implemented behind glass. The few operating elements with interference-proof control further guarantee a reliable, yet convenient and easy handling.

As shown in this case, Hoffmann + Krippner's decades of experience in regards to innovative input systems offers customized, robust, and reliable solutions that fulfill the high requirements set forth by the food processing industry.

**INNOVATION MADE IN GERMANY
HOFFMANN + KRIPPNER.**



TECHNICAL INNOVATION AT THE HIGHEST LEVEL

Hoffmann + Krippner opens up new vistas, solves problems and realizes visions in the three main business areas **complex input devices**, **ultra-flat position sensors** and **industrial PC systems**.

In business for more than 40 years, we now have become the leading manufacturer of customized keyboards and complex input systems and are a market leader in Europe.

We develop and produce innovative input devices, control units and sensors for international customers in numerous industries, from consumer electronics, medical technology and aviation to mechanical engineering and military technology..

Hoffmann + Krippner's product portfolio meets the highest expectations, from simple membrane keyboards to complex designs including enclosure, electronics and software.

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