

# 🇬🇧 Input Devices for Medical Applications



IP  
68





## The Problem Area of Hygiene at Data Input Systems

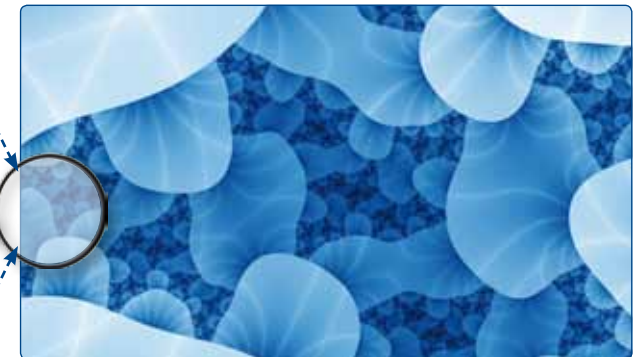


In areas sensitive to hygiene, traditional keyboards and mice represent a serious source for pathogenic germs

### Data input units are a critical factor in areas which are sensitive to hygiene!

Since these units are used frequently, they receive pathogenic germs, house them and transmit them to the user and environment. Particularly keyboards and mice are an optimal breeding ground for germs. The key interspaces permit them to enter the inside of the keyboard. There they adhere, replicate and spread.

The user is contaminated by the key surface. At traditional data input units, cleaning and disinfection is not possible or not possible in a sufficient way. Assumed protective actions such as protective covers or utilisation with gloves can avoid this effect only for a very short time.





## Data input Systems for Areas with Strict Purity Requirements



Patient protection in hospitals



User protection in laboratories



Consumer protection in food production



Special input units as a „clean solution“

Solution is offered by data input units which have been especially developed in this context. InduKey® offers a comprehensive portfolio, which includes all products and technologies for the different requirements of the respective application areas sensitive to hygiene.

No matter if you wish a „ready-to-use“ product or an individual solution: We support you in eliminating hazard sources at the interface between man and system.

### Relevant application areas

- Hospitals and doctor's surgeries
- Laboratories
- Pharmacies
- Pharmaceutical industry
- Nursing homes and Nursery schools
- Health and wellness resorts
- Swimming pools
- Food industry and Beverage production
- Chemical industry
- Public vending machines



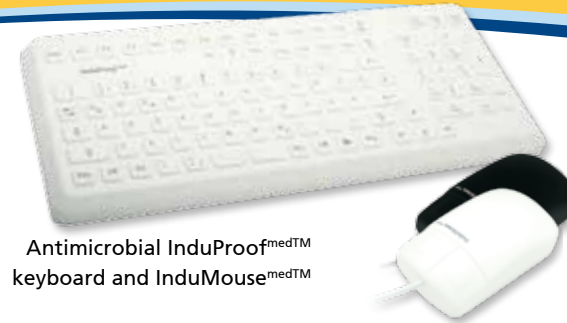


## Keyboards and Mice for Cleaning and Disinfection

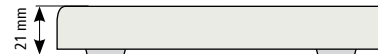


Silicone keyboards of the InduProof™-Series  
All models available in two colours

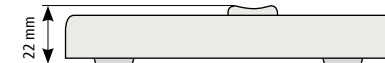
Version  
in black



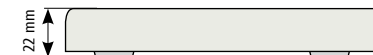
Antimicrobial InduProof<sup>med</sup>™  
keyboard and InduMouse<sup>med</sup>™



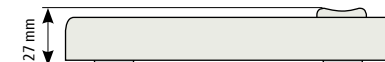
Compact version InduProof<sup>f3</sup>™ with mouse button  
available as version with backlight



Tough and durable  
InduProof<sup>2</sup>™



Versatile InduProof<sup>1</sup>™  
with mouse button



### The Induproof™-Series - High quality for high demands

The genealogy of the well-known InduProof-Series began in 2002. At that time the first InduProof model came to market. This keyboard presented innovative properties like IP68 protection level, complete disinfectability or robust construction.

Since then the keyboard series was developed steadily according to the markets demands and the customer needs.

The keyboards and mice of this category are equipped with a closed silicone surface. Thus, they are completely protected against liquids and dust. These devices are particularly suited for environments which have to meet high hygienic requirements. Especially hospitals, laboratories, companies which are active in the fields of food and pharmaceutical production as well as manufacturers of microelectronic products benefit from the excellent features of these keyboards and mice.



## Keyboards and Mice for Cleaning and Disinfection



Completely disinfectable and cleanable



In action: InduMouse with IP68 protection

### Easy Cleaning - and optional antimicrobial surface

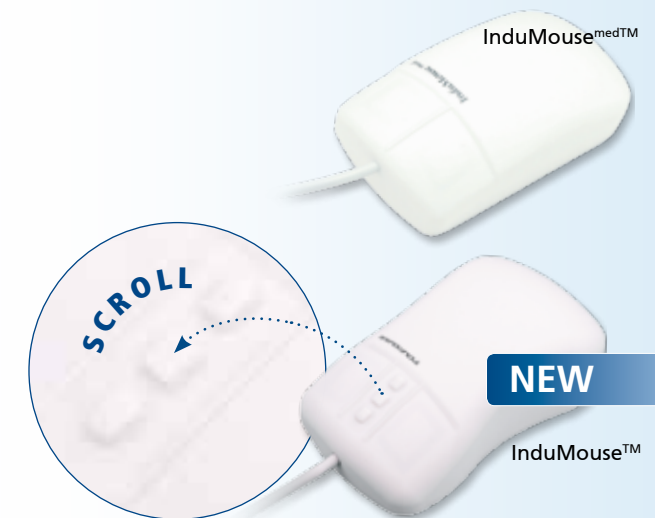
Since the devices are completely disinfectable and cleanable, bacteria and germs can be eliminated. In addition, some models possess antimicrobial properties, which attack microbes that are located on the surface and inhibit their growth. The robust construction ensures a long service life. With some models, in addition to the mouse, a cursor control is available which is integrated into the keyboard.

### InduMouse-Series

The silicone mouse InduMouse<sup>med</sup>™ complements the InduProof<sup>med</sup>™ keyboard and contains the same antimicrobial additive.

### NEW

The new generation of the InduMouse™ is designed ergonomically and has an integrated scroll-function. By means of a Plexiglas pane above the mouse lens, a hygienic cleaning of underside is ensured as well.





## The InduProof™-Advanced-Series



Difficult stay for bacteria - rounded flat key caps



Integrated mouse button

### The new generation -

#### The InduProof-Advanced-Series

The InduProof™-Advanced keyboards have all characteristics required for the safe application in hygiene-sensitive environments. The focus is on the cleanability and disinfectability of the complete device. Water and dust resistance and a high chemical resistance make the intensive cleaning with all conventional disinfectants possible. The even key caps of the closed surface

prevent edges and corners difficult to access; a hundred percent cleanness is guaranteed therewith. An integrated ON/OFF switch of the disengagable electronic system allows for a cleaning even while the system is running.

If needed, boreholes on the rear side for VESA mounting (75x 75 mm grid) can be opened by means of „Push-Out“ from the plastic bottom plate.

### Fields of Application

The concept of the new products pursue a wide range of potential applications. The keyboards are basically suitable for being used in applications, which require a high degree of cleanness and hygiene.

These mainly include medicine, pharmacy, laboratory technology, food industry, chemical industry, production and healthcare.



# The InduProof™-Advanced-Series



Integrated touchpad

## Even more individual even more application-oriented

Moreover the InduProof™-Advanced and the InduMouse are suitable for use in clean room. On request the keyboards offer an enormous width of possible modifications. Starting from the standard model they can be made individual: fast and cost effective. Also an individual new product development is possible. Talk to our project engineers about the various options.



InduProof™ Advanced  
with mouse button or touchpad

## The Topfeatures of the InduProof™ Advanced at a glance:

- Completely protected against liquids and dust - conform to IP68 protection level
- Completely cleanable and disinfectable
- Flat, rounded key caps
- Optional with integrated touchpad or mouse button
- „On/Off“ switch: allows for a complete cleaning while the system is running
- Compact size
- Flat height
- Good tactile feedback
- Robust construction ensures a long service life
- High quality
- „Made in Germany“
- Excellent price/performance ration

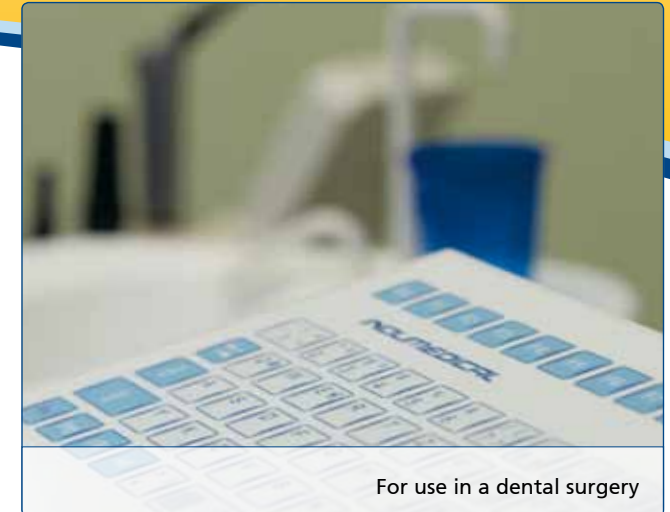




## The InduMedical™ - Protection and Reliability



Foil covered industrial keyboard with antimicrobial surface



For use in a dental surgery

### Antimicrobial user interface

The InduMedical™ is a foil covered industrial keyboard with antimicrobial user interface. The special coated front foil is impregnated with Microban®, inhibits the growth of bacteria and germs (e.g. MRSA). Even after years of usage the active surface coating is still effective. This added protection and the rugged construction make InduMedical™ ideal for use in hospitals, doctor's surgeries and other hygiene-sensitive applications.

In addition to the Microban® protection the keyboard can also be disinfected and wiped. The InduMedical™ is sealed to IP65 standard making it impervious to dust and liquids. The keys are high quality OMRON short travel switches that offer a comfortable tactile key response.

The integrated capacitive touchpad can be used with surgical gloves offering safe and reliable input.



Product description:  
TKS-088-TOUCH-AM-KGEH





# The InduMedical™ - Protection and Reliability



Connected with an anesthesiology device



Comfortable cursor control because of the integrated touchpad

## Technical data of the integrated touchpad:

Operating principle:	capacitive
Resolution:	100 - 300 dpi
Dimensions:	65 x 49 mm
Active surface:	59 x 42 mm

## Side view (sketched representation):



The InduMedical™ standard model is available as a desktop version with an ABS plastic housing. For an operating temperature range from 0°C to 50°C.

For this keyboard InduKey® offers further kind of modifications on request. Please see the information box on the right site.

## Possible Modifications

- Integrated pointing device
- InduPrint technology:  
Possibility of individual foil printing
- InduSense technology:  
Relief printing on operating panels
- InduClean technology:  
Nano paint coating with Lotos effect
- Other layouts and mounting types



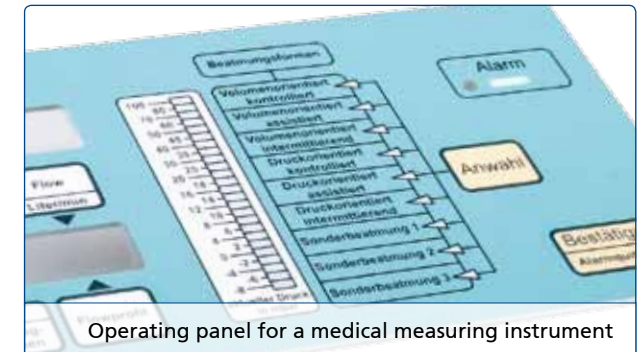
## Customer specific Control Panels and Operating Devices - From the Concept to your own Product



Flat and rugged membrane keyboard in mounting version



Liquid-repellent surface



Operating panel for a medical measuring instrument



Individual silicone switching mat

### Demanding operational environments require individual design

Manufacturers and system vendors of medical devices often need a special, not standardised user surface. In areas with a high hygiene standard additional demanding requirements arise.

From development via manufacturing to commissioning - InduKey® offers the whole range of customer specific solutions.

### Customer is intensively involved in all project phases

Individual operating panels and devices are result of a close cooperation between the customer and the InduKey® project engineers. This exchange is decisive in order to obtain a successful product, which is always designed exactly according to the intended application. Target-oriented approach to the final product permits to avoid waste of resources and disputes.



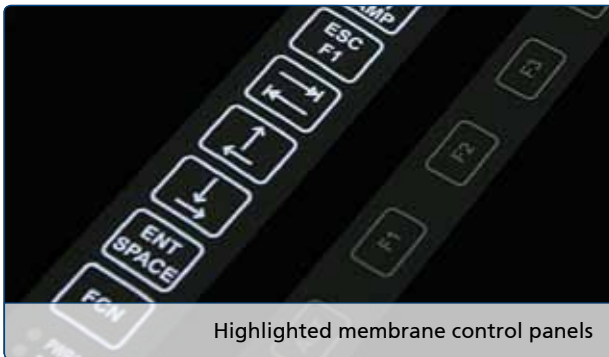
## Customer Specific Control Panels and Operating Devices - „Made-to-Measure“ for each Application



User surface for a blood pressure meter



Touchscreens in different sizes and designs



Highlighted membrane control panels



IP67-Silicone key for a mobile operating device

### Wide range of technologies

It starts with a simple membrane operating panel and ends with a complex stand-alone operating system with complete input and output functions.

Regardless of the large technological basis, InduKey® as a specialist for data input systems keeps on developing and designing innovative products and solutions. This additional value assures the success of the products for all project participants.

### Customer specific technologies and services

- Short travel keyboards
- Membrane keyboards
- Metal keyboards
- Silicone keyboards
- Long travel keyboards
- Touch screens
- Operating panels and devices
- HMI solutions
- Housing
- OEM manufacturing
- Manufacturing services



# Input Devices for Medical Applications



made  
in  
Germany

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