

## Technical data KGEH-versions

Switching technology:	short travel keys	Housing design:	plastic housing (KGEH)
Switching force:	2.6 N	Housing material:	ABS
Switch travel:	0.3 mm	Operating temp.:	-25 °C to +70 °C <sup>1</sup>
Switching cycles:	approx. 3 Mio. (per key)	Storage temp.:	-25 °C to +80 °C <sup>3</sup>

Cat.No.	Product description	Pointing device <sup>1</sup>	Protection level	Dimensions (mm)	Weight
KS18231	TKS-105c-KGEH-PS/2-US	none	IP65	482.6 x 184.6 x 34.9	1300 g
KS18233	TKS-105c-KGEH-USB-US	none	IP65	482.6 x 184.6 x 34.9	1300 g
KS18235	TKS-105c-TB38-KGEH-PS/2-US	Trackball, 38 mm	IP65 <sup>2</sup>	482.6 x 184.6 x 41.7	1400 g
KS18237	TKS-105c-TB38-KGEH-USB-US	Trackball, 38 mm	IP65 <sup>2</sup>	482.6 x 184.6 x 41.7	1400 g
KS18239	TKS-105c-TOUCH-KGEH-PS/2-US	Touchpad	IP65	482.6 x 184.6 x 34.9	1300 g
KS18241	TKS-105c-TOUCH-KGEH-USB-US	Touchpad	IP65	482.6 x 184.6 x 34.9	1300 g
KS18259	TKS-105c-TB38-RF-KGEH-PS/2-US	Trackball, 38 mm	IP65 <sup>2</sup>	482.6 x 184.6 x 41.7	1400 g
KS18261	TKS-105c-TB38-RF-KGEH-USB-US	Trackball, 38 mm	IP65 <sup>2</sup>	482.6 x 184.6 x 41.7	1400 g
KS18243	TKS-104c-KGEH-PS/2-US	none	IP65	382.6 x 184.6 x 34.9	1000 g
KS18245	TKS-104c-KGEH-USB-US	none	IP65	382.6 x 184.6 x 34.9	1000 g
KS18247	TKS-088c-TB38-KGEH-PS/2-US	Trackball, 38 mm	IP65 <sup>2</sup>	382.6 x 184.6 x 41.7	1100 g
KS18249	TKS-088c-TB38-KGEH-USB-US	Trackball, 38 mm	IP65 <sup>2</sup>	382.6 x 184.6 x 41.7	1100 g
KS18251	TKS-088c-TOUCH-KGEH-PS/2-US	Touchpad	IP65	382.6 x 184.6 x 34.9	1000 g
KS18253	TKS-088c-TOUCH-KGEH-USB-US	Touchpad	IP65	382.6 x 184.6 x 34.9	1000 g
KS18255	TKS-088c-TOUCH-AM-KGEH-PS/2-US	Touchpad	IP65	382.6 x 184.6 x 34.9	1000 g
KS18257	TKS-088c-TOUCH-AM-KGEH-USB-US	Touchpad	IP65	382.6 x 184.6 x 34.9	1000 g

Other layouts, configurations and interfaces on request

<sup>1</sup> Keyboards with pointing device: 0 °C to +70 °C

<sup>2</sup> IP65 (front), IP54 (dynam.)

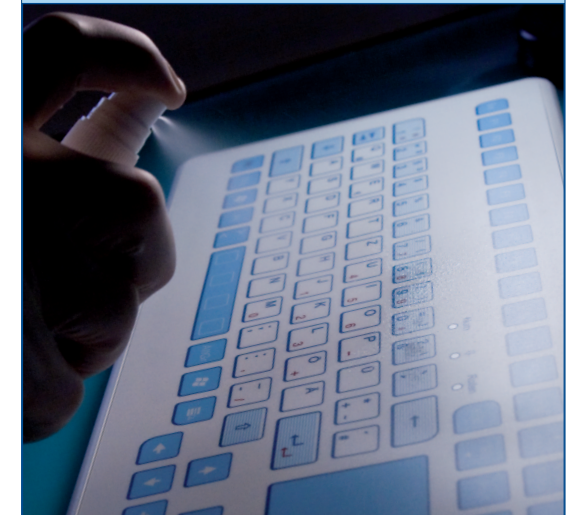
<sup>3</sup> Wireless version: -10 °C to +50 °C



Learn more about further housing and mounting versions of the TKS series:

Front mounting	Page 13
Rack mounting	Page 17, 19
Drawer	Page 17
Explosion protection	Page 27
With edge protection	Page 15

Further pointing devices:	
50-mm trackball version	Page 15, 19
Joystick version	Page 13, 15



TKS-088c-InduMedical keyboards are available as a touchpad version. Without renouncing an integrated cursor control, the surface is completely closed and can be entirely cleaned and disinfected.

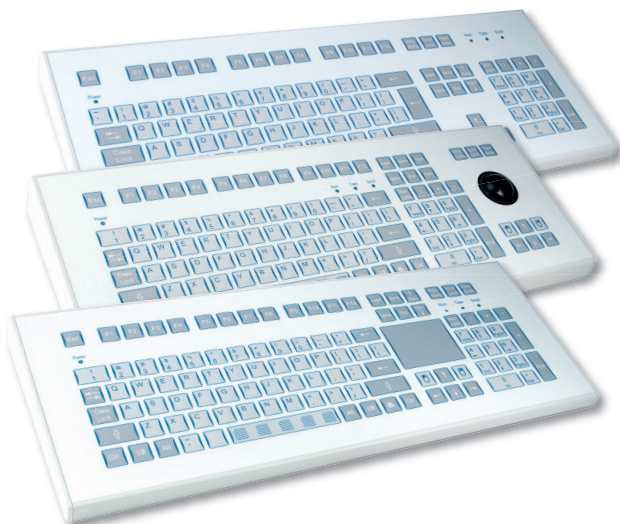


Figure: radio decoder  
included in delivery



**INDUMEDICAL**  
Antimicrobial: TKS-088-TOUCH-AM-KGEH

The keyboard, also known as **InduMedical** is equipped with an antimicrobial surface. Thus, the growth and spread of micro-organisms is prevented. It is especially suitable for the application in hospitals, medical practices as well as other applicational areas which are sensitive to hygiene.



**TKS-105a-KGEH / TB38-KGEH / TOUCH-KGEH**

This keyboard is the base model of the successful TKS type series. It is based on high-quality electromechanic short travel keys and provides an excellent, tactile feedback and a long service life. The closed surface is resistant to water, dust, and other substances which can be found in the industry. As a housing version, it comes with the usual MFII layout of a customary PC keyboard.

TKS-105a-TB38-KGEH and TKS-105a-TOUCH-KGEH are the two versions with integrated trackball or touchpad as mouse pointing device.

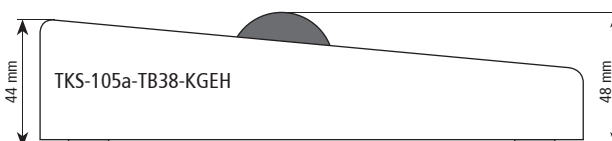
Side views (sketched representation):



**Wireless keyboard: TKS-105a-TB38-RF-KGEH**

Foil covered short travel keyboard in rugged plastic housing with trackball and integrated radio-control-based decoder.

- Multi-channel capable (more than 100 systems synchronously usable in transmission range)
- Long battery life by automatic standby-switching mechanism
- Only to be used with the described battery type and the included battery charger



For example realizable on request:

- Other country layouts (standard: DE and US)
- Customized change of colour
- Integration of your company logo
- VESA-compatible mounting holes



**TKS-030-KGEH / TKS-030-TOUCH-KGEH**

Compact short travel keyboard in a solid plastic housing with 30 keys. In addition to various function keys, the alphanumeric layout offers a second function level.

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Cat.No.	Product description	Pointing device <sup>1</sup>	Protection level	Dimensions (mm)	Weight
KS07211	TKS-105a-KGEH-PS/2-US	none	IP65	480 x 182 x 34	1400 g
KS09451	TKS-105a-KGEH-USB-US	none	IP65	480 x 182 x 34	1400 g
KS08271	TKS-105a-TB38-KGEH-PS/2-US	Trackball, 38 mm	IP65 <sup>2</sup>	480 x 182 x 44	1600 g
KS09453	TKS-105a-TB38-KGEH-USB-US	Trackball, 38 mm	IP65 <sup>2</sup>	480 x 182 x 44	1600 g
KS07216	TKS-105a-TOUCH-KGEH-PS/2-US	Touchpad	IP65	480 x 182 x 34	1400 g
KS09455	TKS-105a-TOUCH-KGEH-USB-US	Touchpad	IP65	480 x 182 x 34	1400 g



KS15267	TKS-105a-TB38-RF-KGEH-PS/2-US <sup>2</sup>	Trackball, 38 mm <sup>2</sup>	IP65 <sup>2</sup>	480 x 182 x 44	1550 g
KS14026	TKS-105a-TB38-RF-KGEH-USB-US <sup>2</sup>	Trackball, 38 mm <sup>2</sup>	IP65 <sup>2</sup>	480 x 182 x 44	1550 g

KS07201	TKS-104a-KGEH-PS/2-US	none	IP65	372 x 182 x 34	1150 g
KS09506	TKS-104a-KGEH-USB-US	none	IP65	372 x 182 x 34	1150 g
KS08261	TKS-088a-TB38-KGEH-PS/2-US	Trackball, 38 mm	IP65 <sup>2</sup>	372 x 182 x 44	1300 g
KS09508	TKS-088a-TB38-KGEH-USB-US	Trackball, 38 mm	IP65 <sup>2</sup>	372 x 182 x 44	1300 g
KS07206	TKS-088a-TOUCH-KGEH-PS/2-US	Touchpad	IP65	372 x 182 x 34	1150 g
KS09510	TKS-088a-TOUCH-KGEH-USB-US	Touchpad	IP65	372 x 182 x 34	1150 g



KS03213	TKS-088-TOUCH-AM-KGEH-PS/2-US	Touchpad	IP65	372 x 182 x 34	1150 g
KS13209	TKS-088-TOUCH-AM-KGEH-USB-US	Touchpad	IP65	372 x 182 x 34	1150 g

KS07351	TKS-030-KGEH-PS/2-US	none	IP65	125 x 150 x 31	450 g
KS07352	TKS-030-KGEH-USB-US	none	IP65	125 x 150 x 31	450 g
KS09222	TKS-030-TOUCH-KGEH-PS/2-US	Touchpad	IP65	195 x 151 x 31	550 g
KS14003	TKS-030-TOUCH-KGEH-USB-US	Touchpad	IP65	195 x 151 x 31	550 g

Other layouts, configurations and interfaces on request

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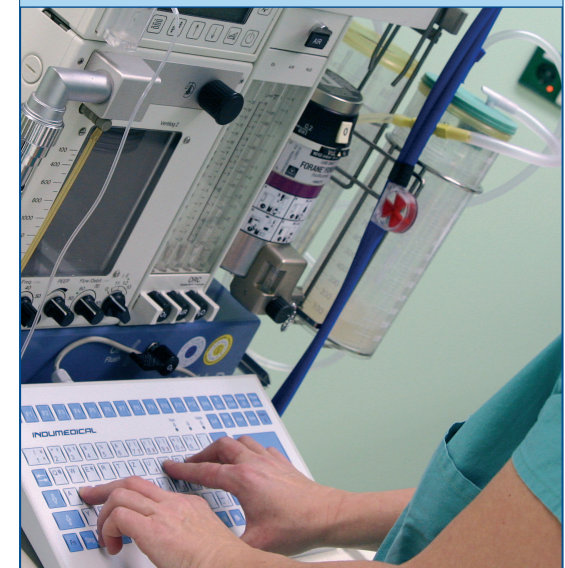
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In addition to the antimicrobial protection the keyboard can also be disinfected and wiped. The InduMedical is sealed to IP65 standard making it impervious to dust and liquids and comes with a rugged ABS case.