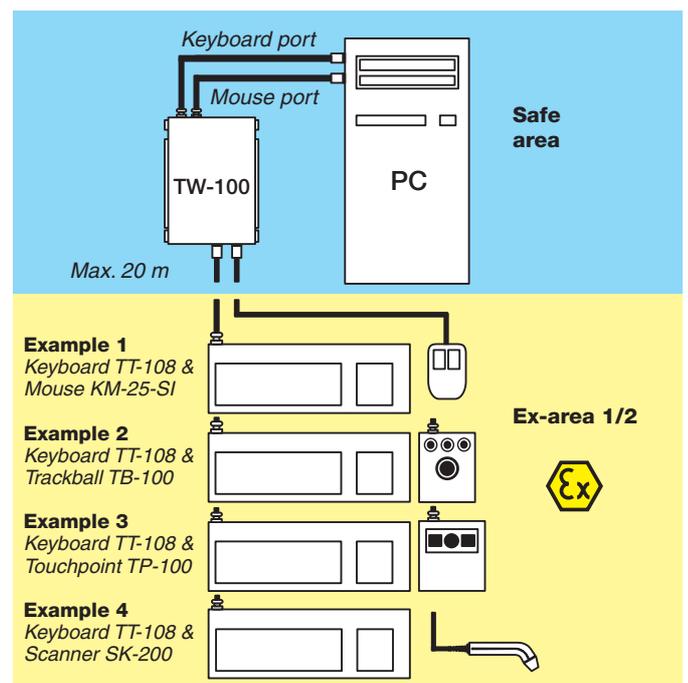# Ex keyboard and mouse

- Keyboard TT-108 and optical mouse KM-25-SI are certified according to the latest ATEX standards for application in hazardous areas of the highest danger class with either gas and dust atmospheres.

- Easy to clean because of best IP protection class (IP69K), smoothed surfaces and a special coating, even with high pressure cleaners and cleansing agent temperatures up to 80 °C.

- The robust EEx mouse KM-25-SI is available in the same colours as the keyboard and does not mind dirty desktops because of it's optical movement detection.

- Due to special silicone coating both devices are absolutely resistant to the most chemicals as well as fluid or solid substances, and applicable for the pharmaceutical and food industry by their disinfectable surfaces.

- High quality easily palpable short travel keys lead to long keyboard life and easy handling, which ensures safe data input together with the clear mechanical feed-back.

- When connected with the Interface TW-100 keyboard and mouse are intrinsically safe and isolated for operation in hazardous areas. The connecting cables between connection to Interface TW-100 and or PC or keyboard and mouse can be done with usual low priced PS/2 cables und plugs.

- The maximum admissible cable length between interface and keyboard is 20 m. Greater distances up to 200 m are possible with interface type TW-200 and a simple CAT 5 cable.

EEx mouse and keyboard for heavy duty industrial applications

Keyboard port
Mouse port
TW-100
PC
Safe area
Max. 20 m

Example 1
Keyboard TT-108 & Mouse KM-25-SI

Example 2
Keyboard TT-108 & Trackball TB-100

Example 3
Keyboard TT-108 & Touchpoint TP-100

Example 4
Keyboard TT-108 & Scanner SK-200

Ex-area 1/2

≡.L.B. EX-GERÄTE
D-64625 Bensheim

Technical Data Keyboard TT-108 / Mouse KM-25-SI

Feature	Best possible IP class for extreme environments conditions inside of hazardous areas.	

Ex-protection	Installation	Zone 1, 2, 21 and 22
	TT-108	II 2 G EEx ia IIC T4 or II 2D T79°C IP68(NEMA 6, 6P)
	KM-25-SI	II 2 G EEx ia IIC T4 or II 2D T65°C IP68(NEMA 6, 6P)
	TT-108	Tested and certified protection for class IP66, IP68 and IP69K
	KM-25-SI	Tested and certified protection for class IP66, IP68 and IP69K

Technical features	Keyboard	MF2 (105) short travel keys
		Life: > 3 Mio. cycles
		Actuation force and travel: 3,0 ±0,65 N / 0,35 mm
		Heavy metall bottom sheet
	Mouse	2 button mouse with very good mechanical stability because of metall bottom plate
		Function principle: optical detection with 800 dpi resolution
	Interface	PS/2 compatible
	Cable length	maximum 20 m
	Layout	German, US International, other on request
	Weight	Keyboard TT-108 = 1,3 kg
		Mouse KM-25-SI = 0,25 kg

Case	Dimension TT-108	W x H x D: 20 mm x 387 mm x 150 mm
	Dimension KM-25-SI	W x H x D: 33 mm x 127 mm x 63 mm
	Material: Keyboard and mouse	Lightweight polycarbonate case. Silicone rubber keys rub of resistant printing and surface seal by special coating. Excellent to clean and disinfect.
		Case colour: black

Intrinsic save circuit	Permissible limits	$U_i = 5{,}4$ V, $I_i = 250$ mA, $P_i = 1{,}2$ W
		L_i = negl., $C_i = 18{,}0$ µF
	Admissible	5 V
	Ambient temperature	Operation: - 20 °C...+50 °C (T4)
		Storage: - 30 °C...+70 °C

TT-108 Dimensions in [mm]
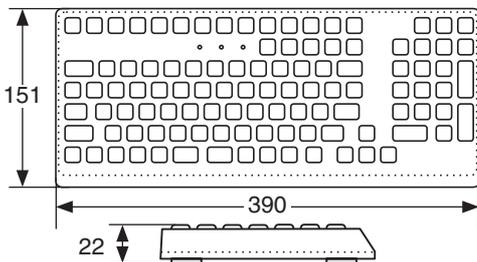
KM-25-SI Dimensions in [mm]
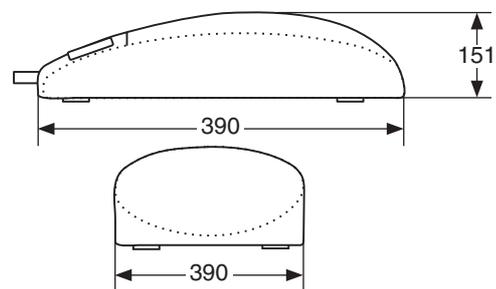
Order information:

EEx-i Keyboard, desktop version	EEx-i Mouse
Order no. TT-108	**Order no. KM-25-SI**
Additional ordering information: -DT for german Layout	
-US for US Layout	
other versions on request	