



SIK 65-Alpha Rugged Keyboard



The **SIK 65-Alpha rugged keyboard** has been designed to provide a turnkey high performance data entry solution for the most demanding applications.

The SIK 65 is an alphanumeric keyboard with a rugged silicone surface, having been specifically designed for use in harsh environments, rugged applications, wet rooms applications and machine control.

Applications for this keyboard include military and emergency services, cold store, logistics/fork lift trucks, food production/catering, Industrial equipment control and in other fields of activity where extreme environmental conditions are present.

The special silicon surface protects against dust and liquids, the hermetic seal allows use of the entire keyboard and the unit meets the IP65 rating for protection. This new keypad technology and the design of the unit allows operators to work seamlessly even when the operators need to wear protective gloves. The key surface makes use of a special PU coating to provide additional abrasion protection. One special feature of this keyboard/keypad is the use of backlighting on each of the key buttons, providing users with enhanced operation in harsh and limited lighting conditions. The under side of the solution features integrated screw threads for VESA mounting. Alternative fixing methods could be provided if required.

Possible options include:- Custom key graphics and product branding, epoxy coating, subject to quantity requirements.

PrehKeyTec GmbH is a leading international manufacturer of high-quality data input systems, these include modular standard keyboards, customer specific/custom keyboards, providing highly flexible designs and supreme reliability, particularly where professional and demanding applications need to deliver operational benefits and functionality.

SIK 65-Alpha Technical Data

Product Design and Development

PrehKeyTec are able to work closely with our clients during the design stage in order to tailor our technologies and expertise to match the customers design criteria. Our capability then extends to production and project management over the life cycle of the design/project. The SIK 65 keyboard can be used as a base sample for further additional customer input and modifications, including custom layout, key markings and final performance specification, subject to quantity requirements.

With the ability to offer rapid software design, electronic and embedded software development and final in-house testing, PrehKeyTec has been the partner of choice in many demanding applications and requirements in the field of data entry solutions. The SIK 65 keyboard can be offered as a base system on to which customer specific requirements are engineered into the solution, this allows the customer to have a completely tailored solution which fits their exact requirements.

Features subject to build and final configuration:-

Illuminated USB Keyboard with unique silicone surface

Key illumination can be adjusted in duration and intensity

Software update via USB interface

Resistant to liquids, such as: - hand lotion, sweat, soap, Detergent, motor oil, gear oil, diesel, Alcohol, antifreeze etc.

Keys resistant to abrasion (PU-coating)

Reliability

Dust-tight and protected against water jets, rated to IP65

Temperature

Operating -30°C to $+50^{\circ}\text{C}$, storage -30°C to 70°C

Key layout

International, UK, German or Custom, 18 mm key pitch

Colour

Black (similar to RAL 9011)

PC connection

USB interface (<500 mA including lighting), others available on request

Lighting

Red LED by each key

Life

> 1 million operations per key

Compliance

1) CE

2) EN 55022:2010 + AC:2011 Class B, FCC Part 15 Subpart B Class A. Electro-magnetic field according to DIN EN61000-4-3, 30 V / m.

3) EN 55024:2010, ESD Electrostatic Discharge according to EN61000-4-2 $\pm 20\text{kV}$ air discharge, $\pm 8\text{kV}$ direct discharge.

4) ESD $\pm 15\text{kV}$ air discharge, $\pm 8\text{kV}$ direct discharge

Environmental

1) Vibration MIL-STD 810G; Method 514.6 – Functional

2) Mechanical Shock MIL STD 810G; Method 516.6, Procedure 1

3) Thermal Shock -40°F to $+158^{\circ}\text{F}$ / -40°C to $+70^{\circ}\text{C}$

4) Salt Fog MIL-STD 810G (8 hours of 5% solution at 35°C)

5) Solar Radiation IEC 68-2-5 Procedure A for 3 days

6) Altitude 15,000 ft./4,572 m above sea level