



## SIK 21-Num Rugged Keypad



The **SIK 21-Num rugged keypad** has been designed to provide a turnkey high performance data entry solution for the most demanding applications.

The SIK 21-Num provides a numeric pad with special application function keys using a rugged silicone surface. Having been specifically designed for use in harsh environments, rugged applications, industrial automation, wet room applications and machine control.

Applications for the keypad include the military equipment control, equipment control and data input, food production/processing/wash down & catering and in other fields of activity where extreme environmental conditions require a reliable means of data input.

The rugged silicon surface protects against dust and liquids, and can provide additional resistance where corrosive fluids are present, the unit meets the IP65 rating against fluid ingress. The 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 keypad is the use of red LED backlighting on each of the key buttons, providing users with enhanced operation in harsh and limited lighting conditions, which in turn reduces errors and aids fast data entry. The underside of the keyboard features integrated screw threads arranged in a 75mm VESA mounting arrangement for ease of integration and mounting.

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 custom input solutions, 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 21-Num 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 21-Num keypad 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 21-Num keypad can be offered as a base system onto which customer specific requirements are engineered into the solution, this allows the customer to have a completely tailored solution which meets 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  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$ , storage  $-30^{\circ}\text{C}$  to  $70^{\circ}\text{C}$

### 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 on 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.

### Environmental

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

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

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

4) Salt Fog MIL -STD 810G (8 hours of 5% solution at  $35^{\circ}\text{C}$ )

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

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