



SIK2600 - Enhanced Keyboard and Keypad



The **SIK2600 Enhanced** rugged keyboard/keypad has been designed to provide a turnkey high performance data entry solution for the most demanding applications.

The SIK2600 is an alphanumeric keyboard or keypad with a unique silicone surface. Having been specifically designed for use in harsh environments, rugged applications and general industrial applications.

Applications for this keyboard/keypad include the military environment, industrial applications, emergency services, food production/catering 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.

Possible options include:- Custom key graphics and product branding, along with alternative communication protocols such as SPI, Modbus and RS232/485, 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.

SIK2600 Enhanced — Technical Data

Product Design and Development—from the initial concept to a full working design and production— 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 SIK2600 keyboard/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 SIK2600 keyboard/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 fits their exact requirements.

Features subject to build and final configuration:-

Illuminated USB Keyboard with unique silicone surface

Key click volume adjustable

Key illumination can be adjusted in duration and intensity

Software update via USB interface

Key codes user programmable 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

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

- 2 status LEDs (NUM and CAPS))

Life

> 1 million operations per key

EMI / ESD

- Compliance as observed for interference / ESD:

1) CE

2) EN55022, FCC Part 15 Subpart B Class A Electrostatic Discharge according to EN61000-4-2, according to test ± 8 kV contact discharge. Electromagnetic field according to DIN EN61000-4-3, 10 V / m.

3) EN60601-1-2

4) ESD ± 15 kV air discharge, ± 8 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° F/-40° C to +70° 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