

PART NO.: CK-KE10092-BL



CK-KE10092-BL IP67 IK09 16 Keys 304 Stainless Steel LED Backlit Industrial Keypad

The CK-KE10092-BL is a compact panel-mount rugged industrial keypad designed for public self-service terminals and harsh industrial working environments. Built with high-quality 304 brushed stainless steel and certified with IP67 waterproof/dustproof and IK09 vandal-resistant ratings, this 16-key keypad delivers strong resistance against dust, dirt, splashing water, ice, oil and various industrial contaminants.

Equipped with professional LED backlight and full internal rubber sealing construction, it ensures clear visibility and stable operation in dim and dark environments, making it a durable, low-maintenance and cost-effective input solution for charging piles, public kiosks, vending machines and industrial control equipment.

The keypad features a robust 1.5mm thick brushed stainless steel front mounting panel with rear screw mounting structure, enabling solid and reliable embedded installation. It effectively withstands long-term physical impact, vandalism and continuous equipment vibration during high-frequency operation in public service areas and industrial workshops. Adopting a one-piece full rubber internal sealing design, the unit completely isolates internal electronic components, preventing water and fine dust from penetrating the device. With 100% full humidity resistance, it maintains consistent operational stability in prolonged humid and wet working conditions without failure or premature aging.

This industrial keypad adopts premium carbon connecting key switches, featuring a standard $2.0N \pm 0.2N$ actuation force and 0.5mm low key travel for excellent, crisp tactile feedback and fatigue-free long-term operation. All key characters are processed by precision laser etching technology, which effectively resists daily friction and abrasion to avoid letter wear and fading, ensuring lifelong clear visibility. The built-in LED backlight greatly improves operability in low-light, dark and night environments, perfectly adapting to unattended public terminals and dim industrial workshop scenarios.

The CK-KE10092-BL supports flexible customization to meet global and personalized application needs, including multi-language layouts and custom special symbols for diverse equipment deployment. It provides multiple plug-and-play interface options, including Matrix, USB, PS/2 and RS232. No complex programming or debugging is required, enabling fast and convenient on-site installation and system integration for various terminal devices and industrial systems.

Designed for outstanding environmental adaptability, the keypad operates stably within a wide temperature range of -20°C to $+60^{\circ}\text{C}$, with storage temperatures ranging from -30°C to $+70^{\circ}\text{C}$. It has passed strict IEC 60512-6 reliability tests, including 96-hour salt mist resistance, 21-day damp heat endurance at 40°C and 10-day dry heat resistance at 85°C . It delivers stable and reliable performance in corrosive, oily, dusty, humid and low-temperature complex industrial scenarios.

Built for long-term heavy-duty use, the carbon key switches support up to 5 million keystroke operations, with an average service life of more than 6 years. It achieves superior reliability with MTBF over 50,000 hours and MTTR less than 30 minutes,

significantly reducing equipment downtime and daily maintenance costs. Featuring a precise compact panel size of 100.0mm × 91.5mm and a gross weight of approximately 0.8KG, it fits well in various space-limited embedded installation scenarios. Operating at 5V DC low voltage with a 150mA rated current and compliant with EN55022(B) EMC emission standards, it ensures stable electromagnetic compatibility and safe long-term continuous operation.

Fully compatible with mainstream operating systems including Windows, Linux, Unix, Mac OSX, Vxworks and Android, the keypad features extensive system adaptability. It holds CE, FCC, RoHS, IP67 and IK09 international certifications, complying with global safety and environmental standards, and is backed by a 1-year limited warranty for stable long-term commercial and industrial deployment.

Widely applicable across multiple industries, the CK-KE10092-BL is commonly used in public kiosks, ticket vending machines, gas station equipment, ATM/CDM financial terminals, charging piles, industrial console desks, clean rooms, medical operating rooms, pharmaceutical workshops, industrial automation systems, oil and gas facilities, manufacturing workshops, warehouses and public safety equipment. It is an ideal backlit rugged keypad for dark, humid and harsh public and industrial working environments.

Core Product Advantages

- Premium 304 Brushed Stainless Steel: High-strength metal structure provides excellent anti-vandal, anti-rust and wear-resistant performance for long-term heavy-duty public and industrial use
- IP67 & IK09 Dual Industrial Protection: Full rubber sealed structure delivers superior waterproof, dustproof, humidity-proof and anti-impact comprehensive protection
- Built-In LED Backlight Design: Reliable backlight ensures clear key visibility and precise operation in dim, dark and low-light working scenarios
- Durable Carbon Key Switches: High-quality carbon keys offer stable 2.0N actuation force and excellent tactile feedback for long-term intensive operation
- 16-Key Optimized Compact Layout: 100×91.5mm compact panel saves installation space while meeting daily input operation demands
- 0.5mm Low Key Travel: Ergonomic key stroke design brings comfortable operation experience and effectively reduces long-time operating fatigue
- Long-Lasting Laser-Etched Markings: Precision laser etching prevents abrasion and fading, maintaining ultra-long-term clear key display
- Diversified Customization Support: Supports multi-language layouts and custom special symbols to fit global equipment deployment needs



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-Plug-and-Play Interface: Optional Matrix/USB/PS2/RS232 interfaces ensure strong compatibility with various terminal devices

-High Stability & Low Maintenance: Million-level keystroke lifespan and high environmental adaptability reduce long-term operational costs

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