

PART NO.: CK-KE166145



CK-KE166145 IP67 IK09 20 Keys 304 Stainless Steel LED Backlit Industrial Keypad

The CK-KE166145 is a high-performance panel-mount rugged industrial keypad tailored for public self-service terminals and diverse harsh industrial working scenarios. Crafted from premium 304 brushed stainless steel and certified with IP67 waterproof/dustproof and IK09 vandal-resistant ratings, this 20-key industrial keypad delivers powerful defense against dust, dirt, splashing water, ice, industrial oil and various corrosive contaminants.

Equipped with a built-in LED backlight system and full internal rubber sealing structure, it ensures clear visibility and stable operation in dim and dark environments, serving as a durable,

low-maintenance and cost-effective input solution for public kiosks, industrial consoles and automated equipment.

Featuring a sturdy 1.5mm thick brushed stainless steel front panel with rear screw mounting design, the keypad enables solid and reliable embedded installation. It effectively withstands long-term physical impact, vandal damage and continuous equipment vibration during high-frequency intensive operation in crowded public areas and heavy-duty manufacturing workshops. Adopting a one-piece full rubber internal sealing structure, it achieves complete internal isolation, thoroughly blocking water ingress and fine dust penetration. With 100% full humidity resistance, the keypad maintains consistent operational stability in prolonged humid, wet and dusty environments without malfunction or premature aging.

This industrial keypad adopts high-quality carbon connecting key switches, featuring a standard $2.0N \pm 0.2N$ actuation force and 0.5mm low key travel, delivering uniform, crisp tactile feedback and fatigue-free long-duration operation. All key characters are processed by professional laser etching technology, which effectively resists long-term friction and abrasion to prevent letter rub-off and fading, ensuring lifelong clear key visibility after years of intensive high-frequency use. The integrated LED backlight greatly enhances key recognition and operability in low-light and dark working environments, perfectly adapting to unattended public terminals and dim industrial workshop scenarios.

The CK-KE166145 supports flexible personalized customization to meet global deployment and personalized application needs. It can be customized with multi-language layouts and exclusive special symbols, fully accommodating overseas equipment matching and special industrial scenario usage requirements. Equipped with multiple plug-and-play interface options, including Matrix, USB, PS/2 and RS232, the keypad requires no complex programming or debugging, enabling fast, convenient and efficient on-site installation and system integration for various terminal devices.

Engineered for excellent universal environmental adaptability, the CK-KE166145 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 authoritative reliability tests, including 96-hour salt mist resistance, 21-day damp heat endurance at 40°C and 10-day dry heat



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resistance at 85°C. It maintains stable and reliable performance in oily, corrosive, humid, dusty and low-temperature complex industrial environments.

Built for long-term heavy-duty operation, the carbon key switches support up to 5 million keystroke operations, with an average service life of over 6 years. It achieves outstanding core reliability with MTBF over 50,000 hours and MTTR less than 30 minutes, greatly reducing equipment downtime and daily maintenance costs. Featuring a professional panel dimension of 166.0mm × 145.0mm and a gross weight of approximately 1.2KG, it fits various embedded installation scenarios perfectly. 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 equipment operation.

Fully compatible with all mainstream operating systems including Windows full versions, Linux, Unix, Mac OSX, Vxworks and Android, the keypad features extensive system adaptability. It holds CE, FCC, RoHS, IP67 and IK09 international authoritative 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-KE166145 is commonly used in public kiosks of universities, shopping malls, hotels, banks, airports and railway stations, ticket vending machines, gas station equipment, ATM/CDM financial terminals, charging piles, internet public phones, paper manufacturing workshops, industrial console desks, clean rooms, medical operating rooms, industrial automation systems, oil and gas facilities, dirty manufacturing workshops, warehouses and public safety equipment. It is an ideal 20-key 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 delivers excellent anti-vandal, anti-rust and anti-corrosion performance for long-term heavy-duty industrial and public use
- IP67 & IK09 Dual Industrial Protection: Full one-piece rubber sealed structure provides superior waterproof, dustproof, humidity-proof and anti-impact comprehensive protection
- Built-In LED Backlight Design: Reliable backlight ensures clear key visibility and smooth operation in dim, dark and low-light working scenarios
- Practical 20-Key Optimized Layout: Professional 20-key layout balances functional richness and installation flexibility for diverse terminal devices
- High-Quality Carbon Key Switches: Premium carbon connecting keys ensure stable 2.0N actuation force and excellent tactile feedback for precise long-term operation
- 0.5mm Ergonomic Key Travel: Optimized key stroke design brings comfortable operation experience and reduces fatigue during intensive long-hour operation

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-Permanent Laser-Etched Markings: Advanced laser etching technology resists daily abrasion and fading, ensuring lifelong clear key display

-Flexible Customization Support: Supports multi-language layouts and custom special symbols to fit global equipment deployment and personalized application needs

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

-High Reliability & Low Maintenance: Million-level keystroke lifespan, high environmental adaptability and stable performance reduce long-term operational costs

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