

PART NO.: CK-KE140127-LCD



CK-KE140127-LCD IP67 IK09 16 Keys 304 Stainless Steel LCD Industrial Keypad

The CK-KE140127-LCD is a heavy-duty panel-mount industrial keypad integrated with an LCD display, professionally built for petrol stations, gas stations, mining operations, oil rigs and various extreme harsh industrial environments. Adopting high-quality 304 brushed stainless steel and certified with industrial-grade IP67 waterproof/dustproof and IK09 vandal-resistant ratings, this 16-key rugged keypad delivers powerful comprehensive resistance against dust, dirt, splashing water, ice, low temperatures and industrial oil contaminants, ensuring stable and continuous operation in heavy-duty outdoor and manufacturing scenarios.

Designed with a robust 1.5mm thick stainless steel rear mounting panel with pre-drilled fixing holes, the keypad supports firm, secure and long-term reliable embedded installation. It effectively withstands frequent physical impact, vandal damage and persistent equipment vibration during high-frequency intensive operation in industrial workshops and public service stations. Featuring a one-piece full silicone rubber internal sealing structure, the unit achieves complete internal isolation, fully blocking water ingress and fine dust penetration. With 100% full humidity resistance, it maintains consistent operational stability in prolonged humid, wet and dusty working conditions without malfunction or premature aging.

This multi-functional industrial keypad adopts durable metal dome 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 legends are processed by advanced laser etching and special ink-filling technology, effectively resisting 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 built-in LCD screen supports real-time data display, greatly improving operational intuitiveness and efficiency for unattended industrial and petroleum terminal equipment.

The CK-KE140127-LCD supports flexible personalized customization to meet global deployment and diversified application needs. It can be customized with multi-language layouts to adapt to overseas equipment matching and personalized terminal usage requirements. Equipped with versatile plug-and-play interface options, including Matrix, USB and PS/2, the keypad requires no complex programming or debugging, enabling fast, convenient and efficient on-site installation and system integration for various industrial and public terminal devices.

Engineered for outstanding universal environmental adaptability, the CK-KE140127-LCD 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 resistance at 85°C . It performs steadily and reliably in low-temperature, oily, corrosive, humid and dusty complex industrial environments.



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Built for long-term heavy-duty industrial operation, the metal dome key switches support up to 5 million keystroke operations, with an average service life of over 6 years. It achieves excellent 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 rear panel dimension of 140.0mm × 127.0mm and a gross weight of approximately 1.0KG, it perfectly adapts to various embedded installation scenarios for medium-sized industrial terminals. Operating at 5V DC low voltage with a 100mA 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 protection standards, and is backed by a 1-year limited warranty for stable long-term commercial and industrial deployment.

Versatile for multi-industry harsh scenarios, the CK-KE140127-LCD is widely applied in petrol and gas stations, industrial control consoles, mining equipment, oil rigs, warehouses, clean rooms, operating rooms, industrial automation systems, pharmaceutical workshops, oil and gas facilities, dirty manufacturing workshops and public safety equipment. It is an ideal 16-key LCD integrated rugged keypad for complex harsh industrial and petroleum industry environments.

Core Product Advantages

-Built-In LCD Display Design: Integrated LCD screen enables real-time data visualization, optimizing operational accuracy and convenience for industrial and petroleum equipment

-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 use

-IP67 & IK09 Dual Industrial Protection: Full one-piece silicone rubber sealed structure provides superior waterproof, dustproof, humidity-proof and anti-impact comprehensive protection

-Standard 2.0N Metal Dome Keys: Stable 2.0N actuation force and 0.5mm low key travel deliver crisp tactile feedback for fatigue-free long-term intensive operation

-Practical 16-Key Functional Layout: Professional 16-key layout meets complex multi-function operation demands of industrial control and petroleum terminal equipment

-Permanent Wear-Resistant Key Markings: Advanced laser etching and ink-filling technology effectively resist daily abrasion and fading, ensuring lifelong clear key display

-Superior Harsh Environment Resistance: Verified by professional salt mist, damp heat and dry heat tests, stably adapting to various extreme industrial working conditions

-Multi-Language Customization Support: Customizable multi-language layouts meet global equipment deployment and personalized terminal application needs

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

-High Reliability & Cost-Effective: 5-million keystroke lifespan, high MTBF and stable performance reduce long-term operational and maintenance costs

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