

PART NO.: CK-KB17IN1-TPDT



CK-KB17IN1-TPDT IP65 Brushed
Stainless Steel Movable Desktop
Industrial Keyboard with Integrated
Touchpad

The CK-KB17IN1-TPDT is a fully
rugged movable desktop industrial
keyboard tailored for extreme harsh and
corrosive working environments.

Constructed with high-quality brushed stainless steel and certified with authoritative IP65 waterproof and vandal-resistant rating, this all-in-one integrated input solution delivers powerful comprehensive defense against salt mist, chemical liquids, corrosive sprays, disinfectants, industrial oil, dust, dirt, ice and low temperatures. Equipped with a built-in high-durability touchpad, practical three-button mouse module and full silicone internal sealing structure, it serves as a zero-install, high-stability and low-maintenance input device for mining, military, pharmaceutical, oil and gas and heavy industrial application scenarios.

Different from traditional panel-mounted fixed keyboards, this model adopts an innovative movable desktop design with anti-slip feet, enabling free placement and flexible position adjustment without complex embedding or fixing installation. Featuring a one-piece full waterproof silicone rubber sealing structure inside, it achieves complete internal isolation, thoroughly blocking water and fine particle intrusion. Supporting 100% full humidity resistance, the keyboard maintains consistent and stable operating performance in long-term humid, wet, saline and corrosive environments, effectively avoiding sensitivity degradation, malfunction or premature equipment aging caused by harsh environmental erosion.

Integrated with a rugged industrial-grade touchpad adopting advanced mutual capacitance sensing technology, this all-in-one keyboard ensures ultra-smooth, precise and jitter-free cursor control. It supports 40 counts/mm X/Y high positioning resolution and a maximum tracking speed of 1016mm/sec, fully meeting high-precision operation and equipment debugging demands of industrial control systems. The touchpad boasts an ultra-long service life of over 10 million sliding cycles, maintaining stable sensitivity after years of heavy-duty continuous use. Matched with a professional 3-button mouse module integrating left-click, right-click and scroll functions, it realizes complete independent cursor operation without extra peripherals, greatly simplifying on-site equipment layout and optimizing operational efficiency.

Adopting high-performance carbon connecting key switches, the keyboard features a standardized 2.0mm key travel and stable $0.6N \pm 0.1N$ actuation force, delivering uniform, crisp tactile feedback and fatigue-free long-duration typing. All key legends are processed via premium laser engraving and special ink-filling technology, effectively resisting long-term friction and abrasion to prevent character fading and rub-off, ensuring lifelong clear visibility. It supports diversified personalized customization, including multi-language layout conversion, raised symbols and raised braille dots, fully adapting to global equipment deployment and barrier-free operation requirements.



Engineered with excellent universal environmental adaptability, the CK-KB17IN1-TPDT operates stably in a wide temperature range of -20°C to +60°C, with safe long-term storage temperature ranging from -30°C to +70°C. It has passed rigorous 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 in corrosive, oily, humid, dusty and low-temperature complex environments, perfectly suited for industrial automation, clean rooms, medical operation rooms, warehouses and public safety facilities.

This stainless steel desktop keyboard features industry-leading durability and outstanding long-term cost performance. Its high-quality carbon key switches support up to 5 million keystroke operations, while the integrated touchpad achieves more than 10 million sliding cycles, with an average overall service life of over 6 years. It owns excellent core reliability indicators: MTBF over 50,000 hours and MTTR less than 30 minutes, greatly reducing equipment failure rates and daily maintenance costs. Featuring a professional front panel dimension of 418.0mm × 150.0mm and a gross weight of approximately 3.0KG, it is sturdy and stable for long-term desktop placement. Working at 5V DC low voltage with only 50mA rated current and complying with EN55022(B) EMC emission standards, it ensures stable electromagnetic compatibility and safe long-term continuous equipment operation.

Featured with USB or PS2 self-detectable plug-and-play interface, the keyboard requires no complex programming or debugging, enabling fast and convenient on-site deployment. It achieves full compatibility with all mainstream operating systems, including full Windows versions, Linux, Unix, Mac OSX, Vxworks and Android. Certified with RoHS, CE and FCC international authoritative certifications, the product complies with global safety and environmental protection standards, backed by a 1-year limited warranty for reliable long-term industrial and military deployment.

Versatile for multi-industry harsh scenarios, the CK-KB17IN1-TPDT is widely applied in mining sites, industrial control consoles, warehousing systems, military and aviation equipment, clean rooms, medical operating rooms, pharmaceutical workshops, industrial automation systems, oil and gas exploitation facilities, heavy-duty manufacturing factories and public safety systems, serving as the ideal movable waterproof and corrosion-resistant all-in-one rugged input solution for extreme harsh environments.

Core Product Advantages

- Premium Brushed Stainless Steel Build: High-strength stainless steel structure delivers excellent anti-vandal, anti-rust and anti-corrosion performance for long-term harsh industrial and military heavy use
- IP65 Full Protection & 100% Humidity Resistance: Integrated full silicone sealed structure provides reliable waterproof, dustproof and moisture-proof comprehensive environmental defense
- Movable Desktop Design with Anti-Slip Feet: Tool-free flexible placement avoids fixed installation limitations, adapting to various mobile and adjustable operation scenarios
- High-Durability Integrated Touchpad: Mutual capacitance touch sensor with 10-million-cycle sliding lifespan ensures smooth, precise and jitter-free long-term operation
- Full-Featured 3-Button Mouse Module: Built-in left/right click and scroll buttons realize complete mouse functions without additional peripheral devices



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Ergonomic Carbon Key Mechanism: 2.0mm standard key travel & 0.6N stable actuation force deliver crisp tactile feedback and zero-fatigue long-duration typing

-Permanent Wear-Proof Laser Markings: Advanced laser engraving and ink-filling technology resist long-term abrasion, maintaining lifelong clear key character display

-Rich Customization Support: Optional multi-language layouts, raised symbols and braille dots meet global deployment and barrier-free operation needs

-Extreme Harsh Environment Adaptability: Verified by professional salt mist, damp heat and dry heat tests, stable in corrosive, low-temperature and high-humidity complex scenarios

-Plug-and-Play Universal Interface: USB/PS2 interface optional, full OS compatibility, easy deployment and stable anti-interference capability

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