

PART NO.: CK-TO8080-TP



CK-TO8080-TP IP65 80×80mm 304 Stainless Steel Industrial Rugged Touchpad

The CK-TO8080-TP is a compact, ultra-rugged panel-mount industrial touchpad engineered exclusively for extreme harsh industrial, marine, mining and military environments. Crafted with premium 304 brushed stainless steel and certified with authoritative IP65 waterproof and dustproof rating, this fully sealed touchpad features excellent resistance to salt mist, chemical corrosion, industrial oil, dirt, dust, splashing water, ice, low temperatures and various disinfectants.

Designed with a mini square form factor, it serves as a space-saving, high-precision and ultra-durable cursor control solution for compact industrial consoles and professional field equipment.

Built with a 1.5mm thick solid stainless steel rear mounting panel with pre-drilled fixing holes, the touchpad enables firm and stable embedded installation, effectively resisting vibration, physical impact and structural loosening during long-term high-frequency operation. Adopting an integrated one-piece full rubber internal sealing structure, it achieves complete internal isolation, fully blocking water, dust and fine particulate intrusion to meet strict IP65 industrial protection standards. Supporting 100% full humidity resistance, it maintains consistent stable performance in long-term damp, wet and high-humidity working conditions without malfunction or performance aging.

Equipped with a high-performance mutual capacitance sensing touch system, the device delivers precise and responsive cursor control with 40 counts/mm X/Y high positioning resolution and a maximum tracking speed of 1016mm/sec, ensuring ultra-smooth and accurate operation for industrial fine tuning. Boasting an ultra-long service life of over 10 million sliding cycles, the rugged touchpad supports years of intensive continuous use without sensitivity degradation. Integrated with dual dedicated left and right mouse buttons, it realizes complete independent cursor control functions, eliminating the need for extra peripheral devices and simplifying equipment layout.

The functional buttons adopt high-quality metal dome key switches, featuring an ultra-flat 0.5mm low key travel and a stable $2.0N \pm 0.2N$ actuation force, delivering crisp, uniform tactile feedback and fatigue-free long-duration operation. All functional markings are processed via professional laser etching and special ink-filling technology, effectively resisting long-term abrasion and fading to maintain lifelong clear visibility after millions of presses. With universal USB and PS/2 self-detectable plug-and-play interfaces, it requires no complex programming or debugging, enabling fast on-site deployment and seamless equipment connection.

Engineered with outstanding environmental adaptability and industrial reliability, the CK-TO8080-TP operates stably in a wide temperature range of -20°C to $+60^{\circ}\text{C}$ and supports safe long-term storage at -30°C to $+70^{\circ}\text{C}$. 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, dusty, oily and high-humidity complex environments, fully meeting the stringent requirements of marine, mining, military and heavy industrial scenarios.

This mini industrial touchpad features industry-leading long-term durability and superior cost performance. Its metal dome switches support up to 5 million keystroke operations, while the touchpad achieves over 10 million sliding cycles, with an average overall service life of more than 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 an ultra-compact 80mm × 80mm square panel size and a lightweight gross weight of only 0.6KG, it perfectly adapts to narrow installation spaces and minimizes equipment load. With ultra-low power consumption (20mA rated current and 17mA active current) and compliance with EN55022(B) EMC emission standards, it ensures stable electromagnetic compatibility and safe long-term continuous operation.

Fully compatible with almost all mainstream operating systems on the market, including full Windows versions, Linux, Unix, Mac OSX, Vxworks and Android, the touchpad adapts seamlessly to diverse professional industrial control terminals. 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 to guarantee stable and durable long-term operation.

Versatile for multi-industry harsh scenarios, the CK-TO8080-TP is widely applied in marine console simulation, ship cabins, fleet control systems, military and aviation equipment, mining machinery, oil and gas exploitation, industrial automation consoles, clean rooms, medical operating rooms, pharmaceutical workshops, dirty manufacturing factories, warehouses and public safety facilities, being the ideal mini high-protection pointing solution for space-limited and ultra-harsh industrial environments.

Core Product Advantages

-IP65 Waterproof & Dustproof Protection: Full rubber sealed structure provides reliable defense against water, dust and 100% humidity for harsh industrial working conditions

-Ultra-Compact 80×80mm Mini Size: Square lightweight design saves installation space, perfect for compact industrial equipment and narrow panel layouts

-High-Precision Mutual Capacitance Touch: 40 counts/mm high resolution and fast tracking speed ensure smooth, accurate and responsive cursor control

-Million-Level Ultra-Long Lifespan: 10-million-cycle touch sliding durability + 5-million-time switch lifespan, supporting 6+ years stable continuous operation

-Durable 304 Stainless Steel Body: Reinforced panel delivers excellent anti-vibration, anti-impact and vandal-resistant performance

-Ergonomic Metal Dome Buttons: 0.5mm ultra-flat key travel & 2.0N standard force bring crisp tactile feedback and low-fatigue operation



Clickin Industrial Co., Ltd

Factory: No.68, Jinniu Road, Economic Development Zone, Taojiang, Yiyang, Hunan, P.R.China. Zip Code: 413400

Office: Building No.2, Science and Technology New Park, East No.6 Road, Xingsha Economic Development District, Changsha, Hunan, P.R.China. Zip Code: 410126

Tel: +86 133 9285 0459

Web: www.clickin-industrial.com

Email: info@clickin-industrial.com

Permanent Wear-Resistant Markings: Professional laser etching and ink-filling technology prevent fading and abrasion for lifelong clarity

-Superb Harsh Environment Adaptability: Passed salt mist, damp heat and dry heat tests, suitable for marine, mining and corrosive industrial scenarios

-Low Power & High Stability: Ultra-low power consumption, high MTBF and low maintenance rate, excellent long-term cost performance

-Plug-and-Play & Full Compatibility: USB/PS2 interface optional, full OS support, fast embedded installation and strong anti-interference capability

Web: www.clickin-industrial.com

Email: info@clickin-industrial.com

