KEY TECHNOLOGY (CHINA) LIMITED
深圳市键特电子有限公司
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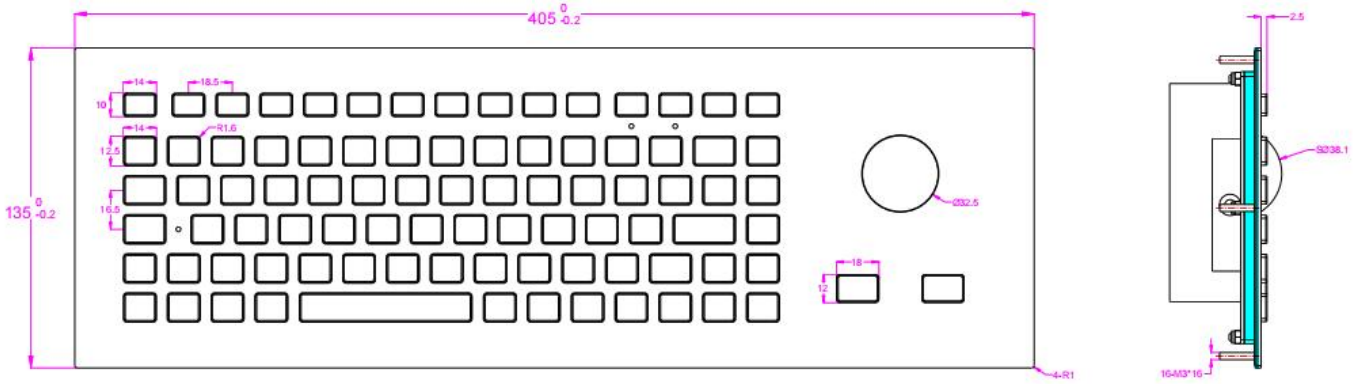
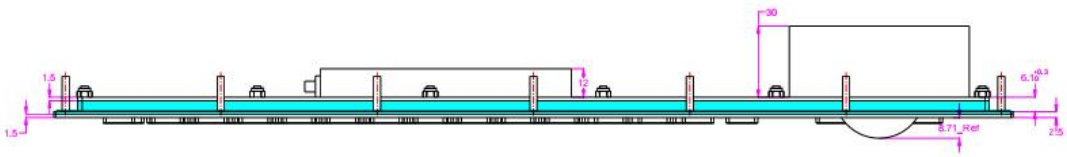
**MODEL NO.:** K-TEK-M405-38-MTB-60-FN-DWP

**DESCRIPTION:** 88 keys compact format IP65 dynamic water proof vandal proof stainless steel industrial keyboard with silicone keys(white/grey color) for comfortable and quiet typing, with integrated IP65 static 38.0mm stainless steel mechanical trackball module in 400 DPI resolutions for fast and accurate cursor position(black hardened resin mechanical trackball module optional), 12 function keys (F1, F2, ...F12) are on the top line for easy operation, sealed and ruggedized industrial PCB with carbon-on-gold key switch technology with long stroke (1.40mm±0.10mm) with extremely good tactile feeling for fast and accurate data input without any noise. One complete waterproof silicon rubber along stainless steel plate for easy mounting & sealing tightly with cabinet, top panel with threaded bolts for top panel mounted. High quality durable elegant grey spray-paint on the SUS304 front plate surface to withstand the corrosion from water/salt mist etc. 3 LEDs for CapsLock/Num Lock/Scroll Lock to indicate on/off, with brushed SUS304 stainless steel back plate and shielding boxes to protect electronics, FN + Clean keys to lock/disable the keyboard for easy cleaning without taking away the keyboard from PC, which is good for outdoor application with direct rain and very harsh environments with humidity, much dynamic water, oil, dirt, salt mist etc., MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) and MIL-STD-461G (EMC, EMI, EMS, ESD) optional.

**Dimensions:** 405.0mm x 135.0mm (front panel)



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**MAIN FEATURES:**

- Key-tops guard willful destruction, vandal-proof, against corrosion, weather-proof especially under extreme climatic conditions, water proof/dirt proof, operation under hostile environments.
- An excellent tactile feel with full-long travel switches and allow users to achieve fast and accurate data input without any noise. With firm tactile perception for comfortable operation.
- Any keyboard layouts are available, key-tops are silk screen printing in legends and characters for easy readability, long life to prevent lettering rub-off.
- High quality durable elegant grey spray-paint on the SUS304 front plate surface to withstand the corrosion from water/salt mist etc.
- Ease of customizing with multiple languages, to accommodate foreign or custom variants.
- Complete electronic modules including controller in close consultation with our customers are available.
- PS/2, USB connection plug-and-play with PC via PC existing OS driver, no needing of install separate driver.

| **MECHANICAL DATA** | |
|---|---|
| Keys | 88 keys (Including 2 mouse buttons) |
| Key top style | Protuberant rectangular keys with tactile feeling |
| Key Size | 12.5mm x 14.0mm |
| Key travel | 1.40mm±0.10mm |
| Actuation Force | 1.6 N±0.2N (pressure point ) |
| Switch life | more than 5 million of operations |
| Track ball: | IP65 static 38.0mm mechanical trackball module with 400 DPI resolutions |
| Front Plate: | 1.50mm thickness super quality brushed stainless steel with special elegant grey color |
| Back Plate: | 1.50mm thickness super quality brushed stainless steel |
| G.W. | 1.60KG |
| **ELECTRICAL DATA** | |
| Supply Voltage | DC +5V±5% |
| Current Rating | 50mA |
| EMC Standard | EN 55032:2015 EN 55035:2017 |
| Lifespan | > 5 years |
| Switch Contact Material | Carbon-on-Gold key switch technology with gold PCB |
| Interface | PS2, USB available |
| Cable lengh | Standard 2.0m, customized length available |
| OS | All Windows, Linux, Unix, Mac OSX, Vxworks, Android, (U-cos--To be confirmed). |
| **ENVIRONMENTAL ADAPTABILITY** | |
| Operating temperature | -20℃ to +65℃ |
| Storage temperature | -30℃ to +75℃ |
| Operating RH | 100% |
| Atmospheric pressure | 60-106Kpa |
| Saline mist | 96 hours, IEC 60512-6 |

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|---|---|
| Damp heat test at +40℃ | 21 days, IEC 60512-6 |
| Dry heat test at +85℃ | 10 days, IEC 60512-6 |
| **RELIABILITY** | |
| RoHS Compliant, CE and FCC, ESD;<br>MIL-STD-810F (wide temperature, shock, salt mist, vibration, fungus, humidity etc.) , MIL-STD-461G (EMC, EMI, EMS, ESD) optional. | |
| Protection Level | IP65 dynamic |
| Key Lifespan | >5 million actuations |
| MTBF | >20000H |
| MTTR | <30min |
| APPLICATIONS | Vehicle, aerospace, naval, defense, maritime, Radar, console, portable rugged laptop, UAV ground station etc. |