

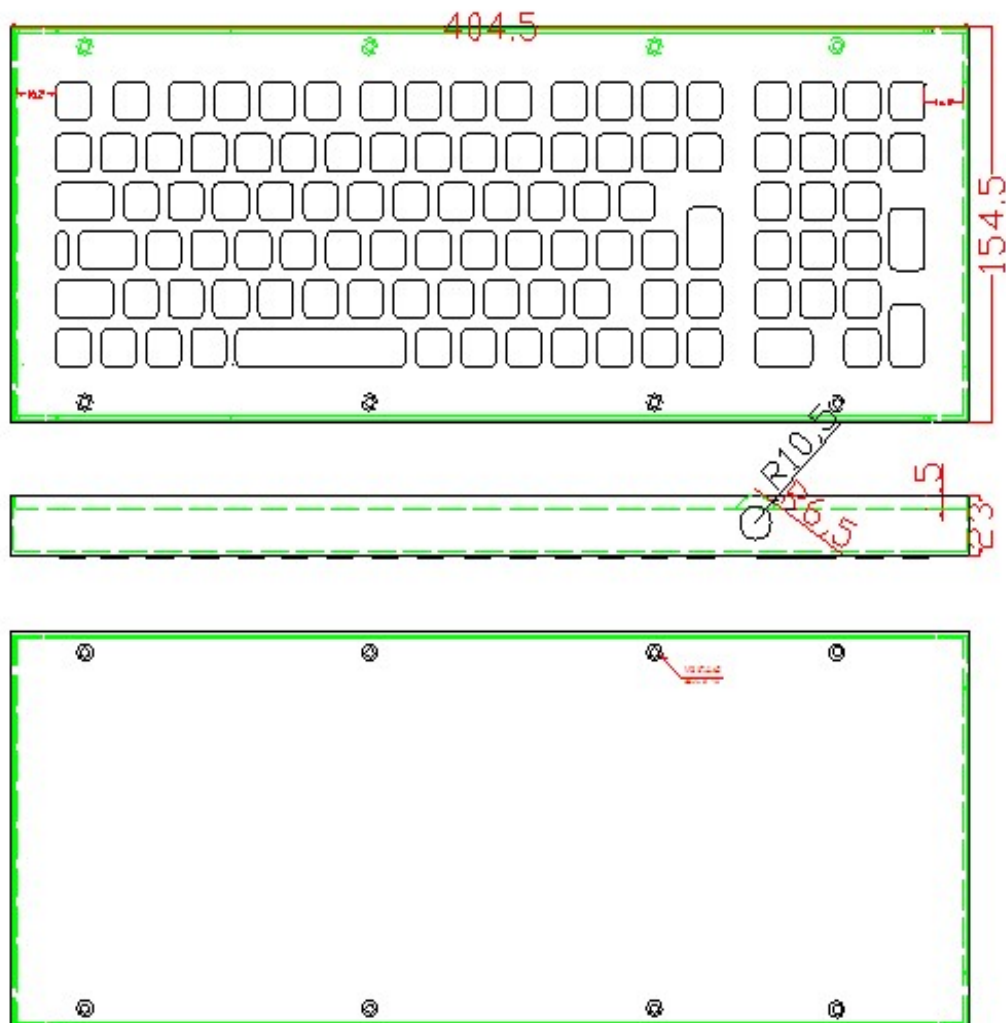
# RL-KB-M405KP-FN



**Model No.:** RL-KB-M405KP-FN

**Dimension:** 404.50mm x 154.5mm x 23.0mm ( L x W x H)

**Description:** 104 keys compact format vandal-proof IP65 (dynamic) desktop backlight keyboard with integrated numeric keypad (with optional encryption module supporting DES/Triple DES), with carbon-on-gold key switch technology with long stroke 2.0mm, function keys (F1...F12) are on the top line of the Keyboard for easy operation, Adjustable backlight keyboard is optional.



## APPLICATION

- This keyboards is constructed to survive in exposed, unsupervised, public environments, and military as Army, Navy, Air force.
- The RL-KB-M405KP-FN series keyboard is an industrial grade keyboard that is environmentally sealed to NEMA 4, 4X, IP65 specifications. This rugged keyboard is housed in a rugged vandal resistant stainless steel enclosure and will stand up to harsh, wet and dirty environments.
- Their responsive key action ensures rapid, reliable and responsive data entry in tough, wet or hostile conditions. A hardened stainless steel front plate and polymer keys ensure the keyboard's resistance to hard use, abuse and vandalism. A water and impact resistant trackball makes this keyboard the complete and ideal solution for PC data entry in menu based 'point & click' application.
- This RL-KB keyboard features 104 full-travel keys with silent tactile feedback for fast and accurate data input functionality. The RL-KB-M405KP-FN series keyboard also features NVIS-compliant red adjustable backlighting, which makes this keyboard ideal for military, aviation or vehicle applications where night vision goggles are worn. Ideal applications include in vehicle computing, plant floor, kiosks, control rooms, warehousing and outdoor environments to name a few.

## MAIN FEATURE

- Vandal resistant
- Keyboard with NVIS-compliant red adjustable backlighting, while NVIS backlighting makes this keyboard ideal for military, aviation or vehicle applications where night vision goggles are necessary.
- Polymer keys ensure the keyboard's resistance to willful destruction, vandal-proof, against corrosion, weather-proof especially under extreme climatic conditions, water proof/dirt proof, operation under hostile environments.
- Waterproof execution according to degree of protection IP65 from the panel, the keyboard is sealed against the ingress or liquid and dirt, when mounted in a suitable enclosure.
- The keyboards have 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
- Internet friendly key layout, key-tops are laser-etched or high quality ink print in legends and characters for easy readability, long life to prevent lettering rub-off.
- RFI / EMI Protection in accordance with current European and U.S. directives.
- Ease of customizing with multiple languages, to accommodate foreign or custom variants.
- Desktop solution, and is provided with PS/2, USB connection output cables that plug directly into the host computer for normal keyboard operations.
- Operational life of more than 10 million cycles per key.
- Resistant to most commonly used cleaning agents.
- Integral 38mm PS2 / USB compatible IP65 Mechanical trackball /IP68 optical trackball /IP65 chameleon trackball with left, middle & right mouse keys.

## MECHANICAL DATA

- Key: 104 keys
- Key top style: Protuberant rectangular keys.
- Key Size: 11.4mm x 11.4mm for normal keys, 11.4mm x 20.9mm for enter key, 11.4mm x 64.8mm for space bar.
- Key travel: 2.0mm
- Switch life: more than 10 million of operations.
- Lettering: laser-etched or high quality ink print.
- Actuator/keys materials: polymer
- G.W.: 2.8KGs
- Dimensions:404.50mm x 154.5mm x 23.0mm ( L x W x H)

## ELECTRICAL DATA

- Supply Voltage: +5V DC +/-5%
- Current Rating: appr. 30mA
- EMC Standard: It is compliance with the council EMC directive 89/336/EEC  
EN55022:1988+A1:2000+A2:2003  
EN55024: 1988+A1:2001+A2:2003
- Emission: EN 50081-1
- Immunity: EN 50082-1
- Lifespan>5 years
- Switch Contact Material: Carbon-on-Gold key switch technology PCB.
- Interface: PS2, USB available.
- OS: DOS/Windows95/98/NT/ME/2000/2003/XP/Vista, Linux, Unix, Mac OSX

## ENVIRONMENTAL ADAPTABILITY

- Operating temperature:-20oC to +60oC
- Storage temperature: -30oC to +70oC
- Operating RH: 30-90%
- Atmospheric pressure: 60-106Kpa.
- Saline mist: 96 hours, IEC 60512-6
- Damp heat test at + 40oC: 21 days, IEC 60512-6
- Dry heat test at + 85oC: 10 days, IEC 60512-6

## RELIABILITY

- RoHS Compliant, CE and FCC
- Protection Level: IP65(front panel)
- Vandal resistant IK10
- Key Lifespan >10 million actuations
- MTBF >50000H
- MTTR <30min