Intrinsically Safe Explosion-proof
Keyboard/Mouse Set (Wireless Laser)
Model No. GIMK270
Explosion-proof structure ia2G3

Instruction manual

The kit includes
a. Keyboard and battery box (2 size AA battery mounted)  1
b. Mouse and battery box (2 size AA battery mounted)  1
c. USB Receiver (with USB extender)  1
d. Dust-proof cover for keyboard  1
e. Stick-on plate for battery box  2
f. Stick-on staple to fix USB connector  1
g. Plastic tie-band (to bind USB connector and staple)  1
h. USB junction cable (1m)  1
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Intrinsically Safe Explosion-proof Keyboard/Mouse Set
GIMK270

1. Introduction
This product is intrinsically safe explosion-proof keyboard/mouse set which cleared the explosion-proof screenings pursuant to the Recommended Practices for Explosion-protected Electrical Installations in General Industries, ver. 2006 published by their certification agency, Technology Institution of Industrial Safety designated by Minister of Health, Labor and Welfare.

Make sure to be well-acquainted with this instruction manual before use for your safety.

2. Specification

<table>
<thead>
<tr>
<th>Product</th>
<th>Intrinsically safe explosion-proof keyboard/mouse set (wireless laser)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model</td>
<td>GIMK270</td>
</tr>
<tr>
<td>Explosion-proof structure</td>
<td>ia2G3</td>
</tr>
<tr>
<td>Certification No.</td>
<td>No. T68493</td>
</tr>
<tr>
<td>Interface</td>
<td>Receiver : USB connector (Type A)</td>
</tr>
<tr>
<td>Radio system</td>
<td>2.4GHz radio wave system</td>
</tr>
<tr>
<td>Receiver</td>
<td>Material/Color : ABS plastic / Black</td>
</tr>
<tr>
<td></td>
<td>Weight : Approx. 5g</td>
</tr>
<tr>
<td>Keyboard (GIKEY-2)</td>
<td>Keyboard layout : 108 Japanese layout</td>
</tr>
<tr>
<td></td>
<td>Key structure : Membrane keyboard</td>
</tr>
<tr>
<td></td>
<td>Material/Color : ABS plastic / Black</td>
</tr>
<tr>
<td></td>
<td>Battery : Two AA alkaline batteries (LR6, Panasonic)</td>
</tr>
<tr>
<td></td>
<td>Approx. battery life : Approx. 2 years</td>
</tr>
<tr>
<td></td>
<td>Weight : Approx. 470g (excluding battery box)</td>
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<tr>
<td>Mouse (GIMA-2)</td>
<td>Sensor type : Optical</td>
</tr>
<tr>
<td></td>
<td>Resolution (dpi) : 1000</td>
</tr>
<tr>
<td></td>
<td>Number of button : 3 buttons</td>
</tr>
<tr>
<td></td>
<td>Material/Color : ABS plastic / Black</td>
</tr>
<tr>
<td></td>
<td>Battery : Two AA alkaline batteries (LR6, Panasonic)</td>
</tr>
<tr>
<td></td>
<td>Approx. battery life : Approx. 1 year</td>
</tr>
<tr>
<td></td>
<td>Weight : Approx. 52g (excluding battery box)</td>
</tr>
<tr>
<td>Ambient temperature</td>
<td>0~40℃</td>
</tr>
<tr>
<td>Communication range</td>
<td>Approx. 5m (line-of-sight distance)</td>
</tr>
<tr>
<td>Applicable OS</td>
<td>Windows 10 • 8 • 7 • Vista • XP</td>
</tr>
<tr>
<td>Remarks</td>
<td></td>
</tr>
</tbody>
</table>

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mk270e.151214
3. **Precautions**

Make sure to be on the safe side with regard to ratings or functions and well-prepared for the safety measures such as fail-safe system if you use this device under the following conditions or environments:

1) For use in nuclear control, rail, aviation, vehicles, vessels, medical equipments.
2) For use for the purposes which require maximum priority on safety because shattering impacts to human lives or properties may be predicted.

4. **Safety instructions**

1) **Battery**
   a. Make sure to use AA alkaline battery (LR6, Panasonic) only. If other kinds are used, we will not ensure the intrinsically safe explosion-proof performance.

2) **Warnings**
   a. Battery change should be done at a non-hazardous area.
   b. Do not take apart or remodel the products.
   c. Do not give any shock to the products.
   d. In order to prevent the spark caused by the static electric charge, please wear clothes that are hard to be charged such as anti-static clothes.

3) **Setup**
   a. Connect the receiver to USB connector of PC or other devices placed at a safe area.
   b. Battery box, keyboard, and mouse can be used in a hazardous area.
   c. Make sure to set the receiver within the sight of the keyboard and mouse as much as possible. Keyboard and mouse still work if the said condition cannot be provided. However, its response may get dull.

5. **Procedures to connect keyboard/mouse**

   a. Turn on the computer and wait until Windows is completely up.
   b. Turn on the power of the keyboard/mouse after making sure that the batteries are in the battery boxes (for correct polarity).
   c. Hook up the receiver to the attached USB junction cable (1m) and connect to the USB port of the computer. (Please locate the receiver close to the keyboard/Mouse.)
   d. For Windows 10, 8, 7, Vista, and XP, hardware will be automatically detected to be ready for use.

6. **ID channel setting**

   a. It will be set automatically.

7. **Troubleshooting**

   a. If the device does not operate: Check if the batteries are mounted correctly.
   b. If the device does not operate: Make sure that power of keyboard/mouse is turned on.
   c. If the operation is unstable: Replace the batteries with new ones.
   d. If the mouse does not operate smoothly: The mouse pointer does not work correctly if used on glossy materials. In that case, use a mouse pad.
8. **Miscellaneous**
   a. The cursor may not move smoothly on light-reflecting materials or glass. A mouse pad or a substitute such as a book will be recommended.
   b. Make sure to turn off the power of the keyboard/mouse to save battery life, if not used for a prolonged period of time.
   c. Dust-proof cover for the keyboard is attached. Apply it if you want to protect the keyboard from the dust. (Dust-proof cover: multi keyboard cover “FA-MULTI” made by Sanwa Supply Inc.)
   d. Since a magnet sheet is attached to the battery box, you can stick it to something made of iron such as iron desk. If there is nothing applicable, you can stick the attached stick-on plate for battery box (iron plate with double-sided tape on the back) to a regular desk etc., and fix the battery box on it.

9. **Dimension**

   ![Keyboard Diagram](image)

   **Keyboard (GIKEY270)**

   - Stick-on plate for battery box
   - Double-sided tape attached
   - Battery box
   - Magnet sheet
   - Production number
   - Rating label
   - Length: 80 cm
   - Power switch
   - Model number label
   - Precaution for use

   Dimensions:
   - Width: 442 mm
   - Depth: 150 mm
   - Height: 33 mm
10. Contact info.
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Please note that the specifications may change for improvement without prior notice.