IP67 UV-PROTECT NETWORK PLASTIC BOX WP SERIES

**Waterproofing ability by using silicone gasket**

Highly elastic and durable silicone gasket for high waterproof ability. The use of insert nuts allows the unit to retain its waterproof ability even after multiple opening and closing.

![Silicone gasket and insert nuts](image)

**Weather-resistant ASA material**

The white gray "G" type utilize a UV resistant, durable ASA material. Recommended for outdoors usage as a communication device type equipment.

![Weather-resistant ASA material](image)

**Easy installation on walls and brackets**

Easy mounting onto walls and brackets by opening the blind lids. A clean and sleek appearance can be maintained as screws are hidden away by the blind lids.

![Easy installation on walls and brackets](image)

**Easy installation on electrical poles**

By using a pole mounting accessory, it can be attached to poles with ease.

![Easy installation on electrical poles](image)

Outdoors Use Example

IT Sensor Data Logger for agriculture
Product by Nishimu Electronics Industries Co., Ltd.
Website: nishimu.co.jp/index-e.html
How to make buttons and switches waterproof

Utilize a waterproof membrane keypad, membrane switch or overlay.
Note that the waterproof performance will be lost once holes or cutouts for buttons and/or switches drilled/machined on waterproof enclosures.

How to make waterproof buttons and switches

Please utilize a waterproof membrane keypad, membrane switch or overlay.
Note that the waterproof performance will be lost by drilling/milling holes or cutouts for buttons or switches on waterproof enclosures.

Cross-section

Obstruction

Thread hole milling from M6 ~ M32, PG7 ~ PG21 sizes can be performed as per your requirements.
WP SERIES

LeakLess Monitor - Industrial Pressure/Flow Data Logger

Leak Guard - Home Water Leak Detector

Wireless Temperature/Humidity Transmitter

LoRaWAN Network Air Pressure Sensor

Sigfox Remote Surveillance Sensor

APPLICATION EXAMPLE

IOT center data logger for agriculture

LoRa Gateway

※ LoRa = Long Range Transmission

Network Sensor for Agriculture

Remote Sprinkler Control Unit

Argonomic Parameter Surveillance Unit

LoRa Gateway

Maritime GPS Tracking System

Product by SMTech j.d.o.o (Croatia)
Website: smtech.hr/en

Product by
Nishimu Electronics Industries Co., Ltd. (Japan)
Website: nishimu.co.jp/index-e.html

Product by EASEL Inc. (Japan)
Website: nishimu.co.jp/index-e.html

Product by Veimart Oy-WP (Finland)
Website: veimart.fi/en

Product by Masibus Automation And Instrumentation Pvt. Ltd. (India)
Website: masibus.com/

Product by mcf88 S.r.l. (Italy)
Website: mcf88.it/

Product by SpaceAge Labs Pte Ltd. (Singapore)
Website: spaceagelabs.com.sg
Network Sensor for Agriculture
Product by Demand Side Instruments (France)
Website: dsinstruments.fr

Remote Sprinkler Control Unit
Product by Demand Side Instruments (France)
Website: dsinstruments.fr

Argonomic Parameter Surveillance Unit LoRa Gateway
Product by Argotec Engineering S.L (Spain)
Website: argotec.es

Maritime GPS Tracking System
Product by HidnSeek (France)
Website: hidnseek.fr
IP67 protection class allows the unit to be used outdoors while protecting the internal components from dust and water.

Available in 2 types: UV-resistant ASA in white gray color, and flame-resistant ABS in charcoal gray color.

Addition of 8 sizes for a total of 24 different selectable sizes.

Mount on walls or brackets by simply opening the blind lids.

Pole mounting is possible via an optional pole mounting bracket accessory.

### Technical Data

**Protection class**: IP67

**Operating temperature**:
- ASA*: -30 ~ +60°C
- ABS: -10 ~ +50°C

*May become brittle and break under impact when temperature is lowered close to -30°C.

### Components

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<tr>
<th>No.</th>
<th>Part name</th>
<th>Pcs</th>
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Product no. / Dimensions

<table>
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<tr>
<th>Product no.</th>
<th>Dimensions</th>
<th>Weight (kg)</th>
<th>Screw</th>
<th>Recommended torque (N・m)</th>
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Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

- G color type shall undergo a revision. Color shall change from "White gray - RAL7035" to "Munsell N8.75 or similar".

Accessories (Optional parts)

Pole mount bracket WPMB series
See page 13

Rubber feet PFRF series
See page 14

TORX screw MR series
See page 14

PCB mounting screw EM series
See page 22

Protective vent PMF series
See website

Cable gland
See website

Pole mounting belt PKB series
See website
### WP dimensions

*Drawings below are reference examples only. DXF/DWG/PDF drawings available on our website.*

**Boss for PCB are located inside top covers of certain models. Detailed information available on DXF/DWG/PDF drawings.**

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**English_New IP67 Plastic.indd   11 18/10/29   14:48**
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</table>
Pole mount bracket made from weather resistant ASA material.
Hole milling is not required when installing the mount bracket, thus allowing the enclosure to maintain its IP67 protection.
WPMB-M4-2 can be used both for vertical and horizontal installation.
Together with WPMB series, the PKB series mounting belt enables the unit to be mounted onto a pole.

DXF/DWG/PDF drawings available on our website.

<table>
<thead>
<tr>
<th>Product no. / Dimensions</th>
<th>Material / Finish</th>
<th>Screw</th>
<th>Suitable enclosures</th>
<th>Recommended torque (N • m)</th>
<th>Weight (g)</th>
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<tbody>
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<td>ASA UL94HB</td>
<td>M3-6 x 2 pcs</td>
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<td>M4-6 x 2 pcs</td>
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<td>0.45 ~ 0.5</td>
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Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.

Recommended torque listed is for reference only; actual may differ. Assemble after testing torque.
PFRF SERIES  RUBBER FEET

- Recommended to be used with WP series as a desktop-type unit.
- No additional hole milling required as the rubber feet fits snugly into the screw holes.
- Made from elastomer material.
- Unavailable for use with WP5-7-2, 5-7-3, 6-8-2, and 6-8-3 models.

Product no. / Dimensions

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<th>Color</th>
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</tbody>
</table>

MR SERIES  TORX SCREW for WP

- Recommended to be used for tamper resistance, or for an elegant look and feel.
- Requires the use of a specialized screwdriver.
- Unavailable for use with WP5-7-2, 5-7-3, 6-8-2, and 6-8-3 models.

Product no. / Dimensions

<table>
<thead>
<tr>
<th>Product no.</th>
<th>Dimensions</th>
<th>TORX head no.</th>
<th>Material</th>
<th>Finish</th>
<th>Suitable enclosures</th>
<th>Pack of</th>
</tr>
</thead>
<tbody>
<tr>
<td>MR2.5-8ST</td>
<td>M: 2.5</td>
<td>L: 8</td>
<td>T 8 (with pin)</td>
<td>Stainless steel Unfinished</td>
<td>WP8-8-2 • 8-10-2 • 9-13-3 • 10-10-3 • 11-15-3 • 13-18-3/WSC series</td>
<td>20</td>
</tr>
<tr>
<td>MR2.5-16ST</td>
<td>M: 2.5</td>
<td>L: 16</td>
<td>T 8 (with pin)</td>
<td>Stainless steel Unfinished</td>
<td>WP8-8-4 • 8-10-4 • 9-13-4 • 10-10-4 • 11-15-4 • 13-18-5</td>
<td>20</td>
</tr>
</tbody>
</table>
**EM SERIES**

PCB MOUNTING SCREW

- Self-tapping screws for mounting PCB on bosses or standoffs.
- EM-3-6 self-tapping screws are suitable for mounting 1.6mm or thicker PCB.

**Product no. / Dimensions**

<table>
<thead>
<tr>
<th>Product no.</th>
<th>M</th>
<th>L</th>
<th>Material</th>
<th>Finish</th>
<th>Suitable enclosures</th>
<th>Pack of</th>
</tr>
</thead>
<tbody>
<tr>
<td>EM-1.6</td>
<td>1.6</td>
<td>4</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>CSS • CB • PS (M1.6 size) • WC</td>
<td>50</td>
</tr>
<tr>
<td>EM-2</td>
<td>2</td>
<td>5</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>PS • TW • TWN • TWF • WP (M2 size)</td>
<td>50</td>
</tr>
<tr>
<td>EM-2.3</td>
<td>2.3</td>
<td>6</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>LCT • LCS • LC • WH PF • PFF (M2.3 size) TW • TWN • TWF (M2.3 size) WP (M2.3 size)</td>
<td>50</td>
</tr>
<tr>
<td>EM-2.3-8</td>
<td>2.3</td>
<td>8</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>WSC (for bottom base only)</td>
<td>50</td>
</tr>
<tr>
<td>EM-2.6</td>
<td>2.6</td>
<td>6</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>PF • PFF • WP (M2.6 size)</td>
<td>50</td>
</tr>
<tr>
<td>EM-3</td>
<td>3</td>
<td>5</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td>TWS • TWN • TWF (M3 size) • SU</td>
<td>50</td>
</tr>
<tr>
<td>EM-3-6</td>
<td>3</td>
<td>6</td>
<td>Steel</td>
<td>Trivalent chromate</td>
<td></td>
<td>50</td>
</tr>
</tbody>
</table>

**NMG SERIES**

NEODYMIUM MAGNET

**Round magnet**

- Material / Finish: Neodymium / Nickel plated
- Please attach using a strong adhesive.

**Components**

<table>
<thead>
<tr>
<th>Product no.</th>
<th>a</th>
<th>b</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMG3-15N</td>
<td>15</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>NMG3-20N</td>
<td>20</td>
<td>3</td>
<td>7.1</td>
</tr>
<tr>
<td>NMG5-22N</td>
<td>22</td>
<td>5</td>
<td>11.4</td>
</tr>
<tr>
<td>NMG5-25N</td>
<td>25</td>
<td>5</td>
<td>18.4</td>
</tr>
</tbody>
</table>

**Round magnet with countersunk hole**

- Please fasten with a screw.

**Components**

<table>
<thead>
<tr>
<th>Product no.</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>Countersunk size</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMG3-15M3</td>
<td>15</td>
<td>3.2</td>
<td>3</td>
<td>M3</td>
<td>3.8</td>
</tr>
<tr>
<td>NMG3-20M3</td>
<td>20</td>
<td>3.2</td>
<td>3</td>
<td>M3</td>
<td>6.9</td>
</tr>
<tr>
<td>NMG5-22M4</td>
<td>22</td>
<td>4.3</td>
<td>5</td>
<td>M4</td>
<td>13.7</td>
</tr>
<tr>
<td>NMG5-25M5</td>
<td>25</td>
<td>5.3</td>
<td>5</td>
<td>M5</td>
<td>17.6</td>
</tr>
</tbody>
</table>

**Rectangular magnet with countersunk holes**

- Please fasten with screws.

**Components**

<table>
<thead>
<tr>
<th>Product no.</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>Countersunk size</th>
<th>Weight (g)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NMG3-50M3</td>
<td>50</td>
<td>10</td>
<td>3</td>
<td>M3</td>
<td>11.3</td>
</tr>
</tbody>
</table>

**CAUTION**: Handle with care to avoid personal injury or damage to the magnet.
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sales@takachi-el.co.jp

● All products are EU RoHS 6 compliant.