

AGAW Series Control Stations

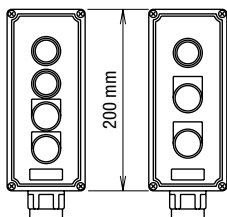
IP65 Waterproof Aluminum Control Stations for $\varnothing 22$ mm Switches/Pilot Lights

AGAW control stations are designed for mounting IDEC $\varnothing 22$ mm (7/8 inch) switches/pilot lights.

- Various control stations are available from one to four holes with most widely used combinations of switches/pilot lights (contact configurations, voltage, button colors, and nameplates).
- Enclosures only are also available, in which specifically selected TW series can be installed.

Ideal for small control boxes

AGAW Control Box with four $\varnothing 22$ mm switches/pilot lights



AGA Control Box with three $\varnothing 30$ mm switches/pilot lights



Specifications

| | |
|----------------------------------|---|
| Degree of Protection (*1) | IP65 (IEC60529) (Key selector switch: Splash-proof IP54) |
| Material (Box) | Aluminum alloy die-cast |
| Coating Color (Powder coating) | Yellow semi-gloss (Munsell 5Y7/1, outside only) |
| Rated Insulation Voltage | 600V |
| Insulation Resistance | 5 M Ω minimum |
| Dielectric Strength | Between live and dead parts: 2500V AC, 1 minute |
| Standard Operating Conditions | Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation) |
| Style | Wall mount (1 to 4 holes) Pole mount (1 to 4 holes) |
| Cable Lead-in (Wall Mount) | Entrance hub 1 to 3 holes: HNA22 G3/4 (22 mm) 4 to 5 holes: HNA33 G1 (28 mm) |
| Applicable Switches/Pilot Lights | IDEC $\varnothing 22$ mm TW series |

*1) The degree of protection depends on the switches/pilot lights mounted in the enclosure.

Contact Ratings (Contact Block)

| | | |
|---------------|--|-----------------------|
| Contact Block | Rated Insulation Voltage | 600V |
| | Rated Thermal Current | 10A |
| | Contact Ratings by Utilization Category IEC60947-5-1 | AC-15 (A600) DC-13 |

Operational Voltage and Current by Utilization Category

| Operational Voltage | | 24V | 48V | 50V | 110V | 220V | 440V |
|---------------------|--|-----|-----|-----|------|------|------|
| Operational Current | AC (50/60Hz) | | | | | | |
| | AC-12 Control of resistive loads and solid state loads | 10A | — | 10A | 10A | 6A | 2A |
| | AC-15 Control of electromagnetic loads (>72VA) | 10A | — | 7A | 5A | 3A | 1A |
| Operational Current | DC | | | | | | |
| | DC-12 Control of resistive loads and solid state loads | 8A | 4A | — | 2.2A | 1.1A | — |
| | DC-13 Control of electromagnets | 4A | 2A | — | 1.1A | 0.6A | — |

Common

Minimum applicable load (reference) = 3V AC/DC, 5mA (the applicable range is subject to change according to the operating conditions)

Switch/Pilot Light Mounting Holes

The holes for mounting switches/pilot lights are 22.2 mm in diameter with an anti-rotation notch.

Mounting centers are 50 mm on 2- and 3-hole enclosures, and 36 mm on 4-hole enclosures.

Waterproof Bushing

Four plastic bushings are provided inside the corners for mounting screws to secure the control station on a panel surface.

Lead-in Fittings (Wall Mount)

An entrance hub made of aluminum is supplied for connecting a steel conduit to lead in cables.

1 to 3 holes: With HNA22 G3/4 for 22 mm conduit

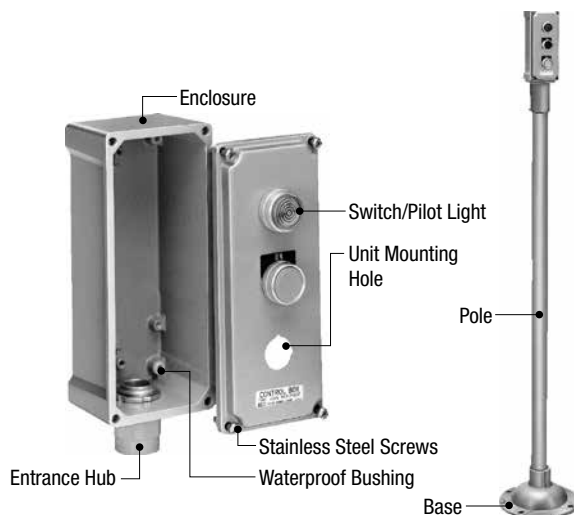
4 holes: With HNA33 G1 for 28 mm conduit

HNAG gland hubs for lead in cables are also available.

Lead-in fitting cannot be removed.




Stand Pole (Pole Mount)

The pole is made of carbon steel pipe, and the base is made of cast iron. The coating color is the same as the enclosure, yellow (semi-gloss).



Control Stations with Switches/Pilot Lights





























The control stations are available with a selected combination of switches/pilot lights as listed below. For the dimensions and mounting centers, see the figures on page 10.

| Switch/Pilot Light | Part No. | Specifications |
|--|-----------|---------------------------|
| Pushbutton  | ABW110 * | Flush, 1NO |
| | ABW101 * | Flush, 1NC |
| | ABW111 * | Flush, 1NO-1NC |
| | ABW411 * | ø40 mushroom, 1NO-1NC |
| Pilot Light  | APW116D * | Round flush, 100/110V AC |
| | APW126D * | Round flush, 200/220V AC |
| Selector Switch  | ASW211 | Knob, 2-position, 1NO-1NC |
| | ASW320 | Knob, 3-position, 2NO |
| | ASW2K11 | Key, 2-position, 1NO-1NC |


























Note: Specify a button or lens color code in place of * :
 Pushbutton: B (black), R (red)
 Pilot Light: G (green), R (red)

Control Stations

Package Quantity: 1

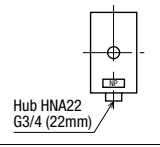
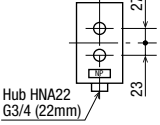
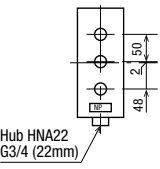
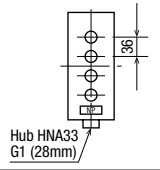
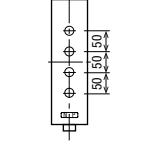
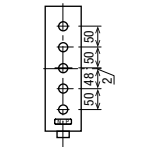
| Control Station | | Mounted Switches/Pilot Lights | | |
|-----------------------|-------------|--|----------------------|--------------------------------|
| Style | Part No. | Symbol | Part No. | NWA Nameplate Legend |
| Wall Mount 1 hole | AGAW1101Y |  | ABW110B | ON |
| | AGAW1102Y |  | ABW411R | Without nameplate |
| | AGAW1105Y |  | ASW211 | HAND-AUTO |
| | AGAW1107Y * |  | ASW2K11 | OFF-ON |
| Pole Mount 1 hole | AGAW1101SY |  | ABW110B | ON |
| | AGAW1102SY |  | ABW411R | OFF |
| Wall Mount 2 holes | AGAW2101Y |   | ABW110B ABW101R | ON OFF |
| | AGAW2102Y |   | ABW111B ABW111R | ON OFF |
| | AGAW2103Y |   | APW116DR APW116DG | Without nameplate |
| | AGAW2104Y |   | APW126DR APW126DG | Without nameplate |
| | AGAW2105Y |   | APW116DR ABW111DR | Without nameplate STOP |
| | AGAW2106Y |   | APW126DR ABW111R | Without nameplate STOP |
| | AGAW2107Y |   | APW116DR ASW211 | Without nameplate HAND-AUTO |
| | AGAW2108Y |   | APW126DR ASW211 | Without nameplate HAND-AUTO |
| | AGAW2109Y * |   | APW116DR ASW2K11 | Without nameplate OFF-ON |
| | AGAW2110Y * |   | APW126DR ASW2K11 | Without nameplate OFF-ON |
| | AGAW2113Y |   | ABW110B ABW411R | ON Without nameplate |

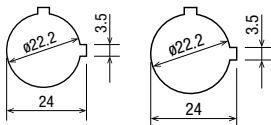
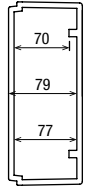
Degree of protection marked with * is splash-proof IP54.

| Control Station | | Mounted Switches/Pilot Lights | | |
|--------------------------|--------------------------|--|--|---|
| Style | Part No. | Symbol | Part No. | NWA Nameplate Legend |
| Pole Mount 2 holes | AGAW2101SY |   | ABW110B ABW101R | ON OFF |
| Wall Mount 3 holes | AGAW3102Y |    | APW116DR ABW110B ABW101R | Without nameplate ON OFF |
| | AGAW3103Y |    | APW126DR ABW110B ABW101R | Without nameplate ON OFF |
| | AGAW3104Y |    | ABW111B ABW111R ASW211 | ON OFF HAND-AUTO |
| Pole Mount 3 holes | AGAW3102SY |    | APW116DR ABW110B ABW101R | Without nameplate ON OFF |
| | AGAW3104SY |    | ABW111B ABW111R ASW211 | ON OFF HAND-AUTO |
| Wall · Pole 4 holes | Wall Mount AGAW4101Y |     | APW126DR APW126DG ABW111B ABW111R | Without nameplate Without nameplate ON OFF |
| | Pole Mount AGAW4101SY | | | |
| | Wall Mount AGAW4102Y |     | APW126DR ABW111B ABW111R ASW211 | Without nameplate ON OFF HAND-AUTO |
| Pole Mount AGAW4102SY | | | | |

Empty Enclosures

Package Quantity: 1

| Style | Part No. | Unit Mounting Hole | Switch/Pilot Light Mounting Centers |
|-----------------------------|----------|--------------------|--|
| 1 hole (approx. 0.6 kg) | AGAW211Y | With |  Hub HNA22 G3/4 (22mm) |
| | AGA210Y | Without | |
| 2 holes (approx. 0.6 kg) | AGAW212Y | With |  Hub HNA22 G3/4 (22mm) |
| 3 holes (approx. 0.7 kg) | AGAW313Y | With |  Hub HNA22 G3/4 (22mm) |
| | AGA310Y | Without | |
| 4 holes (approx. 0.7 kg) | AGAW314Y | With |  Hub HNA33 G1 (28mm) |
| 4 holes (approx. 0.9 kg) | AGAW514Y | With |  |
| 5 holes (approx. 0.9 kg) | KGNW515Y | With |  |
| | KGN510Y | Without | |

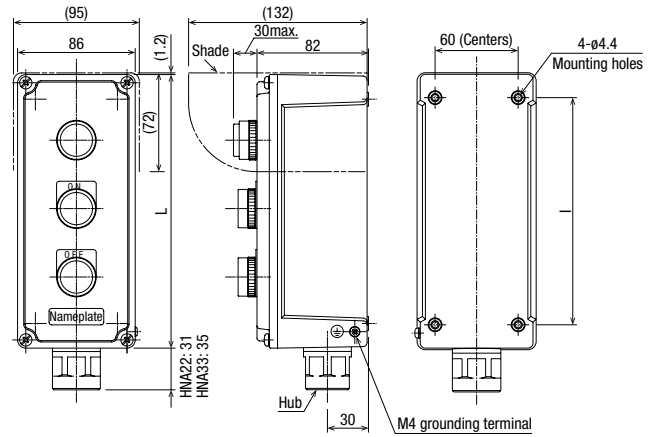
| Switch/Pilot Light Mounting Hole | Effective Depth inside the Enclosure |
|---|---|
|  |  Standard |

An entrance hub is supplied.
 1 to 3 holes: With HNA22 G3/4 for 22 mm conduit
 4 holes: With HNA33 G1 for 28 mm conduit

Dimensions

All dimensions in mm.

AGAW Control Station (Wall Mount)

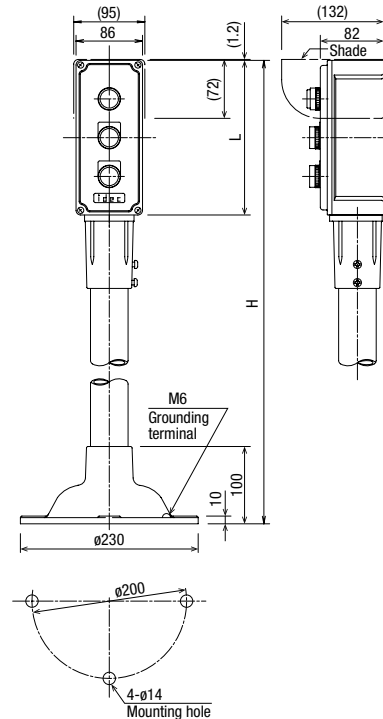


- Entrance Hub (attached)
 1 to 3 holes: HNA22 G3/4 (22 mm)
 4 holes: HNA33 G1 (28 mm)
- Gland hubs for leading in cables are also available.
 See page 39 for details.

| Part No. | Applicable Cable Diameter (R) |
|----------|-------------------------------|
| HNG21 | 8, 10, 12 |
| HNAG22 | 13, 15, 17 |
| HNAG33 | 18, 20, 22 |

| | 1 hole | 2 holes | 3 holes | 4 holes | | 5 holes |
|------------------|-------------|---------|---------|---------|--------|-------------|
| | 211Y (210Y) | 212Y | 313Y | 314Y | 514Y | 515Y (510Y) |
| L | 150 | 150 | 200 | 200 | 300 | 300 |
| I | 114 | 114 | 164 | 164 | 264 | 264 |
| Weight (Approx.) | 0.6 kg | 0.6 kg | 0.7 kg | 0.7 kg | 0.9 kg | 0.9 kg |

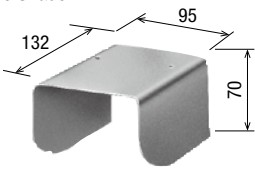
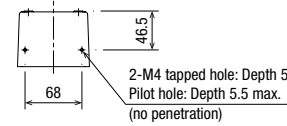

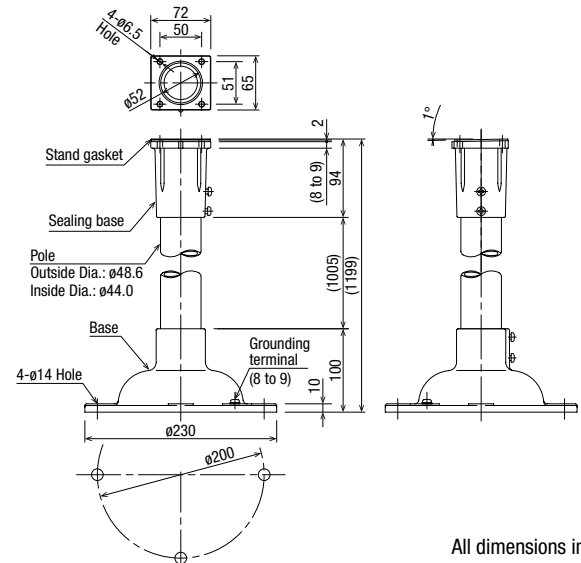
AGAW Control Station (Pole Mount)



| | 1 hole | 2 holes | 3 holes | 4 holes | 4 holes | 5 holes |
|------------------|--------|---------|---------|---------|---------|---------|
| H | 1350 | 1400 | 1400 | 1500 | 1500 | 1500 |
| L | 150 | 150 | 200 | 300 | 300 | 300 |
| Weight (Approx.) | 6.1 kg | 6.1 kg | 6.2 kg | 6.4 kg | 6.4 kg | 6.4 kg |

Accessory (Options)

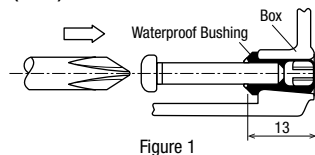
Package Quantity: 1

| Name & Shape | Part No. | Description & Dimensions |
|--|----------|---|
| <p>Enclosure Shade</p>  <p>Material: Carbon steel plate Thickness: 1 mm Weight: Approx. 0.25 kg Coating: Melamine coating</p> | AGZ-S1Y | <ul style="list-style-type: none"> Protection for switches/pilot lights against direct sunlight and falling objects. Color: Yellow (semi-gloss) Shade mounting hole  |
| <p>Stand Pole</p>  <p>Weight: Approx. 5.6 kg Coating: Melamine coating</p> | AGZ-S205 | <ul style="list-style-type: none"> For replacement of the base and pole. Color: Yellow (semi-gloss)  <p>All dimensions in mm.</p> |

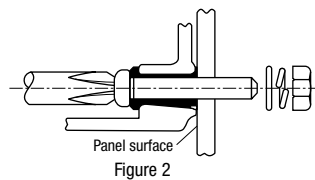
Instructions

Precautions for Mounting on Panel (Wall)

1. Insert M4 screws into the waterproof bushings at all four corners inside the box. Push the screws with a screwdriver and penetrate the bushings (Figure 1).



2. Thrust the screws into panel holes and secure the screws with nuts (Figure 2). Waterproof characteristics are not affected by piecing the bushings with screws.



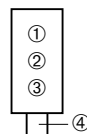
Ordering Information

When ordering control stations with switches/pilot lights:
Specify the Part No. of the control station.

When ordering enclosures without switches/pilot lights:
Specify the following items.

- Part No. of the enclosure
- Part No. and specifications of the switches/pilot lights to be mounted (lens color, button color, etc.)
- Nameplate
- Lead-in fitting
 - Only when ordering the gland hub for leading in cables, specify the Part No. and the finished cable outside diameter (R).
- Other specifications

Ordering Example



| Part No. of Enclosure | AGAW313Y |
|----------------------------------|-----------------------|
| ① | APW126DR |
| Switch/Pilot Light and Nameplate | ② ABW210G, with NWA-1 |
| | ③ ABW201R, with NWA-2 |
| Lead-in Fitting | ④ HNAG22 R15 |

Note: Any ø22 mm TW/HW series are selectable. Take into consideration the degree of protection of the switches/pilot light and the effective depth of the enclosure.

Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions.
Also, durability varies depending on the usage environment and usage conditions.
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.
Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
 - i. Use of IDEC products with sufficient allowance for rating and performance
 - ii. Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
 - iii. Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
 - i. Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
 - iii. Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference
If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

4. Warranty

- (1) Warranty period
The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.
- (2) Warranty scope
Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.
 - i. The product was handled or used deviating from the conditions / environment listed in the Catalogs
 - ii. The failure was caused by reasons other than an IDEC product
 - iii. Modification or repair was performed by a party other than IDEC
 - iv. The failure was caused by a software program of a party other than IDEC
 - v. The product was used outside of its original purpose
 - vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs
 - vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from IDEC
 - viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

IDEC CORPORATION

Head Office 6-64, Nishi-Miyahara-2-Chome, Yodogawa-ku, Osaka 532-0004, Japan

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