

# AGAW Series Control Stations

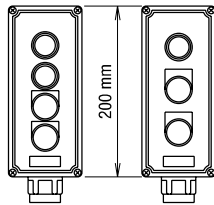
## IP65 Waterproof Aluminum Control Stations for ø22 mm Switches/Pilot Lights

AGAW control stations are designed for mounting IDEC ø22 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 ø22 mm switches/pilot lights



AGA Control Box with three ø30 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 MΩ 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	IEDEC ø22 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	AC-15 (A600)
	Category IEC60947-5-1	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
	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

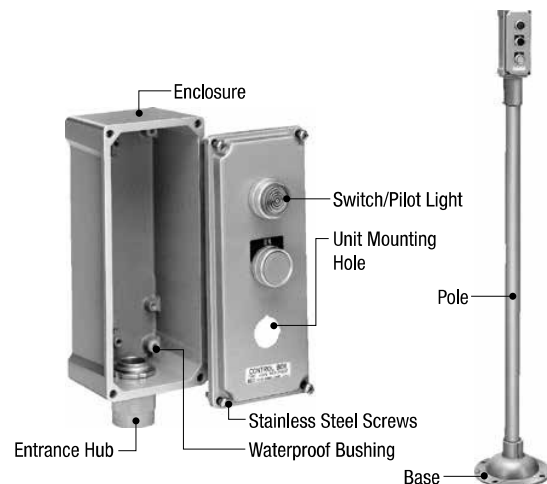
4 holes: With HNA33 G1 for 28 mm conduit

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 (PB)	ABW110 *	Flush, 1NO
	ABW101 *	Flush, 1NC
	ABW111 *	Flush, 1NO-1NC
	ABW411 *	ø40 mushroom, 1NO-1NC
Pilot Light (PL) (LED)	APW116D *	Round flush, 100/110V AC
	APW126D *	Round flush, 200/220V AC
Selector Switch (SS)	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)

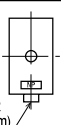
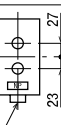
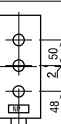
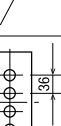


## Control Stations

Package Quantity: 1

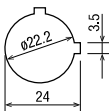
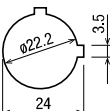
Control Station		Mounted Switches/Pilot Lights		
Style	Part No.	Symbol	Part No.	NWA Nameplate Legend
Wall Mount 1 hole	AGAW1101Y		ABW110B	ON
	AGAW1102Y		ABW411R	Without nameplate
	AGAW1105Y		ASW211	HAND-AUTO
	AGAW1107Y *		ASW2K11	OFF-ON
Pole Mount 1 hole	AGAW1101SY		ABW110B	ON
	AGAW1102SY		ABW411R	OFF
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	Without nameplate ON OFF HAND-AUTO
	Pole Mount AGAW4102SY			

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**

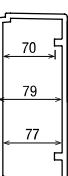



An entrance hub is supplied.

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

4 holes: With HNA33 G1 for 28 mm conduit

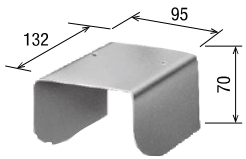
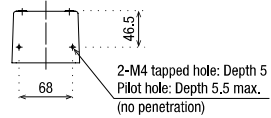

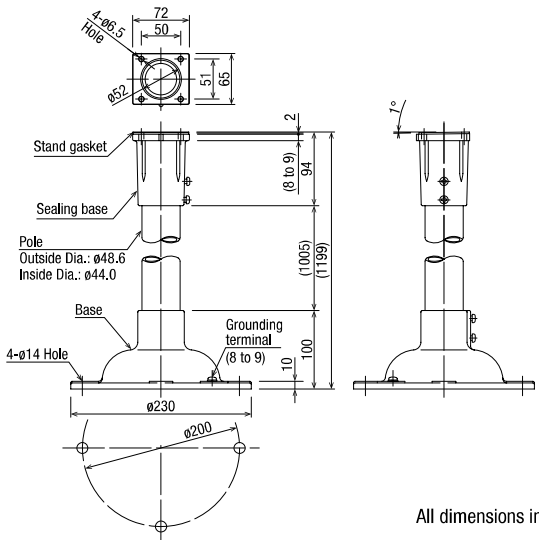
**Effective Depth inside the Enclosure**



Standard

## Accessory (Options)

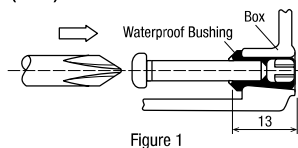
Package Quantity: 1

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

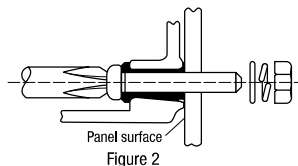
## Instructions

## 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.

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

## Ordering Example



Part No. of Enclosure		AGAW313Y
Switch/Pilot Light and Nameplate	①	APW126DR
	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, 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.

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