

AGA Series Control Stations (Multiple Column)

IP65 Waterproof Multiple Column Aluminum Control Stations Versatile Combinations of Switches/Pilot Lights

The AGA multiple column control stations are designed for mounting various models of switches/pilot lights in various combinations. Standard control stations are available with predetermined specifications of cable lead-in holes and the switches/pilot lights to be mounted (contact configurations, voltage, button colors, and nameplates).

- Versatile combinations of switches/pilot lights are possible. Select from a wide variety of 30 mm (1-13/64 inch) dia. switches/pilot lights.
- The lid of the enclosure is hinged to make wiring and maintenance easy.



Specifications

Model	AGA480 / AGA580	AGA680 / AGA690
Degree of Protection (Note 1)	IP65 (IEC60529)	
Material (Enclosure)	Aluminum alloy die-cast	
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1, outside only)	
Rated Insulation Voltage	600V (Buzzer: 250V)	
Insulation Resistance	5 MΩ minimum	
Dielectric Strength (Note 2)	Between live and dead parts: 2500V AC, 1 minute	
Standard Operating Conditions (Note 3)	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)	
Enclosure Style	Wall mount/pole mount (4 × 2 or 5 × 2 holes)	Wall mount/pole mount (6 × 2 or 6 × 3 holes)
Cable Lead-in (Wall Mount)	Entrance hub (Gland hub also available) HNA33 G1 (28 mm)	
Applicable Switches/Pilot Lights	IDEC ø30 mm series, AZ buzzer and AM ammeter (except enclosed type units)	

Note 1: The degree of protection depends on the switches/pilot lights mounted on the enclosure. When IP65 switches/pilot lights are mounted, the entire control station has IP65 characteristics. (See page 2)

Note 2: AM ammeter/buzzer: 2000V AC, 1 minute

Note 3: Buzzer: -10 to +40°C

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
DC		DC-12 Control of resistive loads and solid state loads	10A	5A	-	2.2A	1.1A -
		DC-13 Control of electromagnets	5A	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 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

Lead-in Fittings (Wall Mount)

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

AGA480 (4 × 2 holes), AGA580 (5 × 2 holes):

With two HNA33 G1 for 28 mm conduit

(Available with one HNA33, upon request)

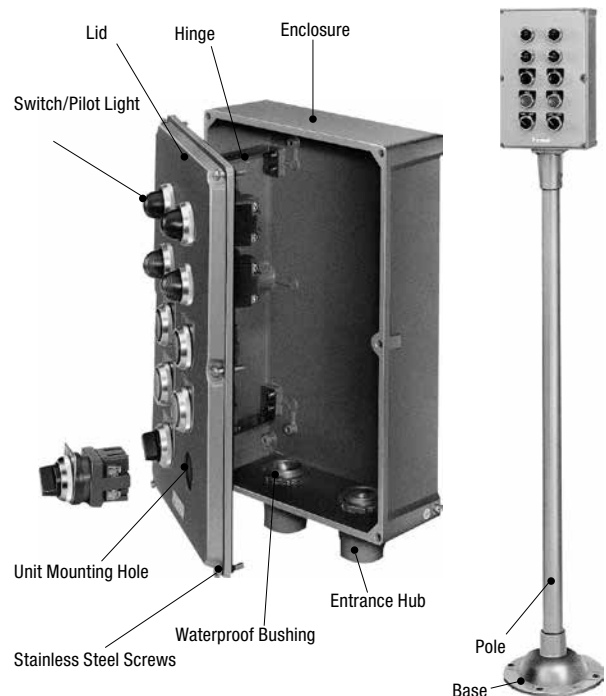
AGA680 (6 × 2 holes): With two HNA33 G1 for 28 mm conduit

AGA690 (6 × 3 holes): With three HNA33 G1 for 28 mm conduit

Gland hubs for lead in cables are also available.

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

Control stations are available with selected combination of switches/pilot lights as listed below. For the dimensions and mounting centers, see the figures below and on page 20.

Switches/Pilot Lights Mounted in Control Stations

Switch/Pilot Light	Part No.	Specifications
Pushbutton 	ABN111 *	Flush, 1NO-1NC
Pilot Light 	APN126DN *	Dome, 200/220V AC (2W)
Selector Switch 	ASN211N	Knob, 2-position, 1NO-1NC
Meter 	AM ammeter (See page 38)	Specify capacity (Part No.) Coating color of the meter bezel: N1.5

Note: Specify a button or lens color code in place of *:
 Pushbutton: B (black), G (green), R (red)
 Pilot Light: G (green), R (red), W (white)
 Flush pushbuttons are supplied with black, green, and red color caps.

AGA480 Control Box (Wall Mount/Pole Mount) Package Quantity: 1

Control Box		Mounted Switches/Pilot Lights		
Style	Part No.	Symbol	Part No.	NA Nameplate Legend
4 × 2 holes	Wall Mount AGA4801Y		APN126DNR	Without nameplate
	Pole Mount AGA4801SY		APN126DNG ABN111 ABN111	Without nameplate ON OFF
	Wall Mount AGAM4801Y		(Note) AM ammeter	Without nameplate
	Pole Mount AGAM4801SY		ABN111 ABN111	ON OFF

Note: Specify the Part No. of the meter to select a required capacity.
 • Control stations with a shade are available. See page 20 for more details.

AGA580/AGA690 Control Box

(Wall Mount/Pole Mount)

Package Quantity: 1

Control Box		Mounted Switches/Pilot Lights		
Style	Part No.	Symbol	Part No.	NA Nameplate Legend
5 × 2 holes	Wall Mount AGA5801Y		APN126DNR APN126DNG ABN111 ABN111 ASN211N	Without nameplate Without nameplate ON OFF HAND-AUTO
	Pole Mount AGA5801SY			
	Wall Mount AGAM5801Y		(Note) AM ammeter	Without nameplate
	Pole Mount AGAM5801SY		APN126DNR ABN111 ABN111	Without nameplate ON OFF
6 × 2 holes	Wall Mount AGA6801Y		APN126DNR ABN111 ABN111 APN126DNR ABN111 ABN111	Without nameplate ON OFF Without nameplate ON OFF
	Pole Mount AGA6801SY			
	Wall Mount AGAM6801Y		(Note) AM ammeter	Without nameplate
	Pole Mount AGAM6801SY		APN126DNR APN126DNG ABN111 ABN111	Without nameplate Without nameplate ON OFF
6 × 3 holes	Wall Mount AGA6901Y		APN126DNR ABN111 ABN111 ABN111 APN126DNR ABN111 ABN111	Without nameplate ON OFF Without nameplate ON OFF
	Pole Mount AGA6901SY			
	Wall Mount AGAM6901Y		(Note) AM ammeter	Without nameplate
	Pole Mount AGAM6901SY		APN126DNR APN126DNG ABN111 ABN111	Without nameplate Without nameplate ON OFF

Empty Enclosures

Package Quantity: 1

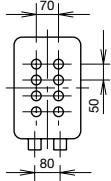
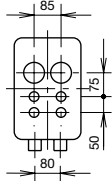
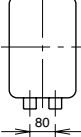
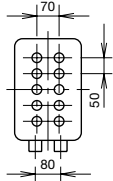
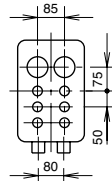
Style	4 holes		5 holes			6 holes			
Part No.	AGA481Y	AGA482Y	AGA580Y	AGA581Y	AGA582Y	AGA681Y	AGA682Y	AGA690Y	AGA691Y
Shape									
Weight (Approx.)	2.6 kg					6.8 kg			
• Switch/Pilot Light Mounting Holes			• Effective Depth inside the Enclosure (4 or 5 x 2 holes)			(6 x 2 or 3 holes)			

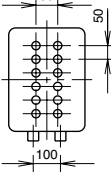
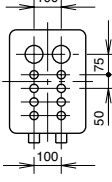
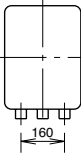
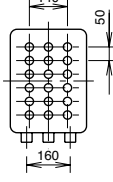
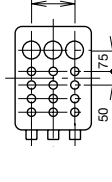
Note: Entrance hubs HNA33YG G1 for 28mm conduit are supplied as standard. The quantity is as shown in the figure above.

• In addition to the enclosures shown above, enclosures with a shade and pole mount enclosures are also available. See page 20 for more details.

Other Enclosures

Package Quantity: 1

Style		Switches/Pilot Lights	Hubs	Shade	Pole	4 or 5 × 2 holes				
Part No.	X	X	X			AGA4801KY	AGAM4801KY	–	AGA5801KY	AGAM5801KY
	X		X	X	X	AGA4801KSY	AGAM4801KSY	–	AGA5801KSY	AGAM5801KSY
		X	X			AGA481KY	AGA482KY	AGA580KY	AGA581KY	AGA582KY
				X	X	AGA481SY	AGA482SY	AGA580SY	AGA581SY	AGA582SY
			X	X	AGA481KSY	AGA482KSY	AGA580KSY	AGA581KSY	AGA582KSY	
Shape										
Weight (Approx.)		With switches/pilot lights and a shade				5.0 kg	6.7 kg	–	5.3 kg	7.0 kg
		With switches/pilot lights, pole mount with a shade				10.6 kg	12.3 kg	–	10.6 kg	12.3 kg
		With a shade				3.1 kg	3.1 kg	3.1 kg	3.1 kg	3.1 kg
		Pole mount				8.0 kg	8.0 kg	8.0 kg	8.0 kg	8.0 kg
		Pole mount with a shade				8.4 kg	8.4 kg	8.4 kg	8.4 kg	8.4 kg

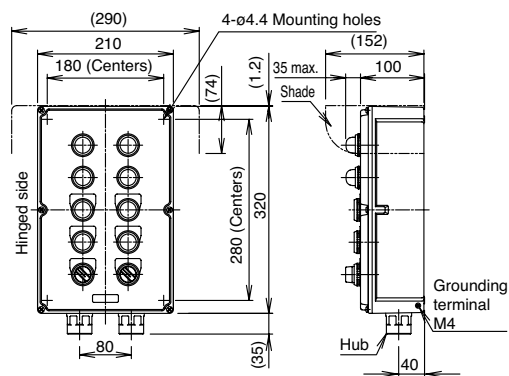
Style		Switches/Pilot Lights	Hubs	Shade	Pole	6 × 2 or 3 holes				
Part No.	X	X	X			AGA6801KY	AGAM6801KY	–	AGA6901KY	AGAM6901KY
	X		X	X	X	AGA6801KSY	AGAM6801KSY	–	AGA6901KSY	AGAM6901KSY
		X	X			AGA681KY	AGA682KY	AGA690KY	AGA691KY	–
				X	X	AGA681SY	AGA682SY	AGA690SY	AGA691SY	–
			X	X	AGA681KSY	AGA682KSY	AGA690KSY	AGA691KSY	–	–
Shape										
Weight (Approx.)		With switches/pilot lights and a shade				11.3 kg	13.0 kg	–	11.3 kg	13.8 kg
		With switches/pilot lights, pole mount with a shade				17.5 kg	19.2 kg	–	17.5 kg	20.0 kg
		With a shade				7.6 kg	7.6 kg	7.6 kg	7.6 kg	–
		Pole mount				13.0 kg	13.0 kg	13.0 kg	13.0 kg	–
		Pole mount with a shade				13.7 kg	13.7 kg	13.7 kg	13.7 kg	–

- For more details about enclosures without switches/pilot lights, see page 19.
- For more detail about switches/pilot lights mounted on control stations, see page 19.

Dimensions

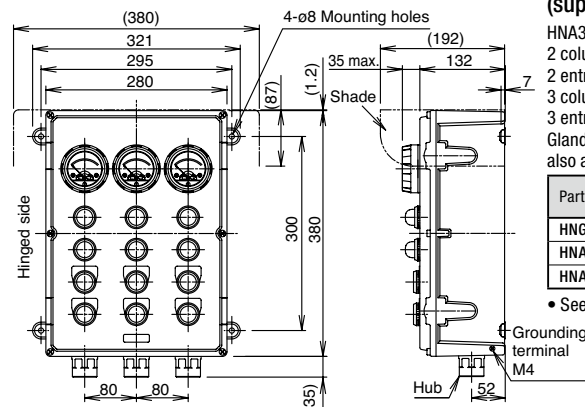
All dimensions in mm.

AGA480/AGA580 (Wall Mount)



Weight: Approx. 4.8 kg

AGA680/AGA690 (Wall Mount)



Weight: Approx. 10.5 kg

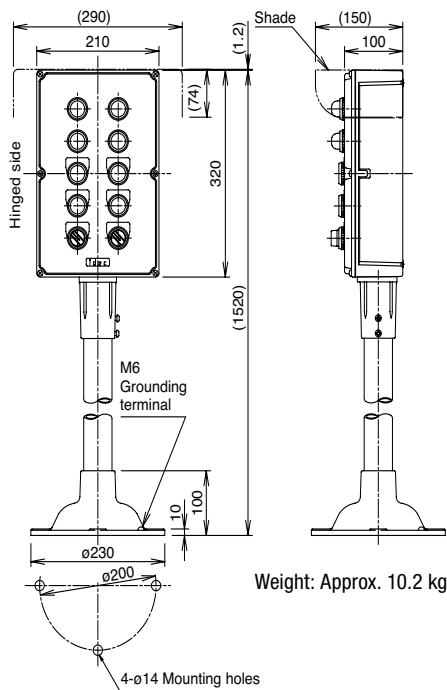
Entrance Hub (supplied)

- HNA33 G1 for 28 mm conduit
- 2 column: 2 entrance hubs attached
- 3 column: 3 entrance hubs attached
- Gland hubs for leading in cables are also available.

Part No.	Applicable Cable Diameter (R)
HNG31	8, 10, 12
HNAG32	13, 15, 17
HNAG33	18, 20, 22

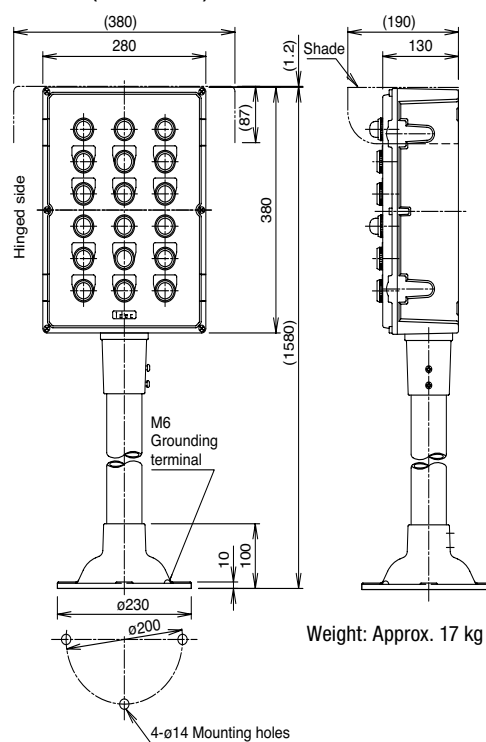
• See page 39 for details.

AGA480/AGA580 (Pole Mount)



Weight: Approx. 10.2 kg

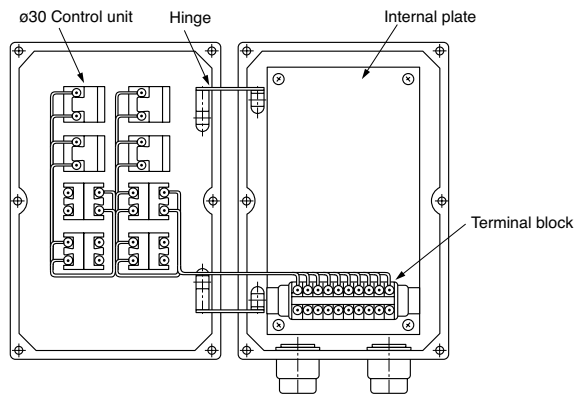
AGA680/AGA690 (Pole Mount)



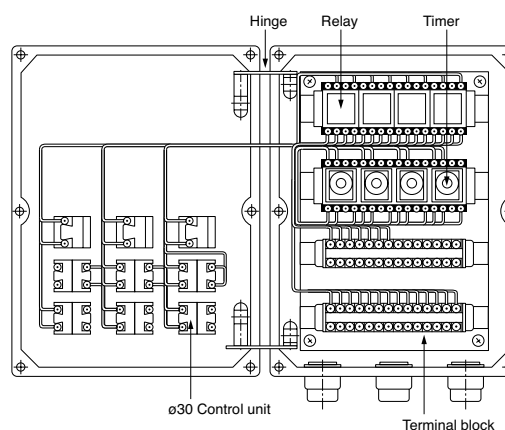
Weight: Approx. 17 kg

Application Examples of Control Stations

AGA580 Control Station

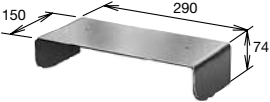
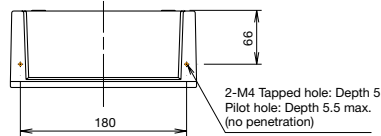
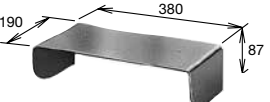
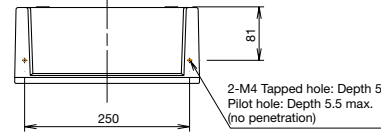
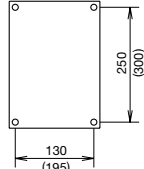

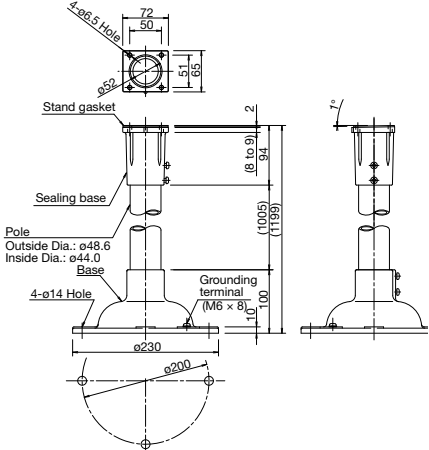

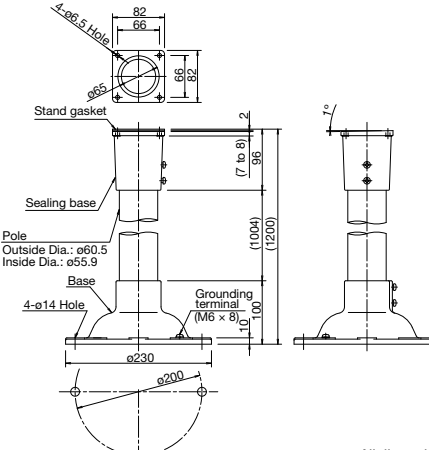


AGA690 Control Station



Accessory (Options)

Package Quantity: 1

Name & Shape	Part No.	Description & Dimensions
<p>Enclosure Shade</p>  <p>For AGA480/AGA580 Material: Carbon steel plate Thickness: 1 mm Weight: Approx. 0.46 kg</p>	<p>AGZ-S2Y</p>	<ul style="list-style-type: none"> Used on AGA480/AGA580 enclosures as a protection for the switches/pilot lights against direct sunlight and falling objects. Color: 5Y7/1 (semi-gloss) Shade mounting hole 
<p>Enclosure Shade</p>  <p>For AGA680/AGA690 Material: Carbon steel plate Thickness: 1 mm Weight: Approx. 0.72 kg</p>	<p>AGZ-S3Y</p>	<ul style="list-style-type: none"> Used on AGA680/AGA690 control boxes as a protection for the switches/pilot lights against direct sunlight and falling objects. Color: 5Y7/1 (semi-gloss) Shade mounting hole 
<p>Internal Plate</p>  <p>Dimensions in () for AGA690 control box</p> <p>Material: Carbon steel plate (Zinc-plated) Thickness: 2.3 mm Weight: AGZ-P2: Approx. 0.59 kg AGZ-P3: Approx. 1.05 kg</p>	<p>AGZ-P2 (For AGA480/AGA580)</p> <p>AGZ-P3 (For AGA680/AGA690)</p>	<ul style="list-style-type: none"> Used to mount terminal blocks, relays, timers, and other units for internal wiring.
<p>Stand Pole</p>  <p>Weight: Approx. 5.6 kg</p>	<p>AGZ-S205 (For AGA480/AGA580)</p>	<ul style="list-style-type: none"> For maintenance of the pole. Color: 5Y7/1 (semi-gloss) <p>AGZ-S205</p> 
<p>Stand Pole</p>  <p>Weight: Approx. 6.5 kg</p>	<p>AGZ-S206 (For AGA680/AGA690)</p>	<p>AGZ-S206</p>  <p>All dimensions in mm.</p>

Instructions

Precautions for Mounting AGA480/AGA580 Control Stations on Panel

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.

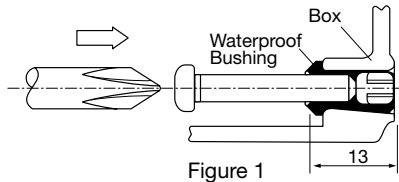


Figure 1

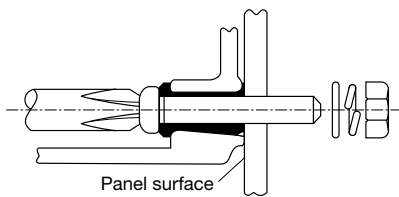


Figure 2

Ordering Information

When ordering control stations with switches/pilot lights (standard):

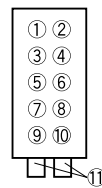
Specify the Part No. of the control station.

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 cable outside diameter. (R).
5. Other specifications

Ordering Example



Part No. of Enclosure	AGA581Y
①②	APN126DNR
③④	APN126DNG
⑤⑥	ABN210B, with NA-1
⑦⑧	ABN201R, with NA-2
⑨⑩	ASN211N, with NA-32
Lead-in Fitting	⑪ HNAG33 R18

Note: Any $\varnothing 30$ mm TWN/TWND series switches/pilot lights are selectable. Take into consideration the degree of protection of the switch/pilot light and the effective depth of the enclosure.