

Control Stations

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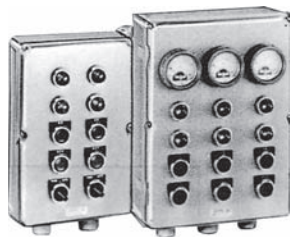
Control Stations

Explosion Protection

References

Control Stations (Selection Guide)

Type	KGNW		KGN		AGAW	
Enclosures Type	Single Column Type		Single Column Type		Single Column Type	
Appearance						
Degree of Protection	IP40 (IEC 60529, JEM1030), Enclosed type		IP40 (IEC 60529, JEM1030), Enclosed type		IP65 (IEC 60529, JEM1030), Waterproof (JIS C 0920) (Note)	
Material (Box)	Sheet steel		Sheet steel		Die-cast aluminum	
Coating Color	5Y7/1 semi-gloss, melamine coating				5Y7/1 semi-gloss, melamine coating (outside only)	
Standard Operating Conditions	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)					
Enclosure Style	Wall mount (1 to 4 holes)		Wall mount (1 to 5 holes)		Wall mount (1 to 4 holes) Stand (1 to 4 holes)	
Cable Lead-in (Wall Mount Type)	Double knockouts On top: ø22 and ø27 mm On bottom: ø16 and ø20 mm		Double knockouts On top: ø22 and ø27 mm On bottom: ø16 and ø20 mm		Entrance hub (Gland hubs are also available) 1 to 3 holes: HNA22 G3/4 (22 mm) 1 4 holes: HNA33 G1 (28 mm) 1	
Applicable Control Units	IDEC ø22 mm TW/HW series control units		IDEC ø30 mm series control units		IDEC ø22 mm TW/HW series control units	
Enclosure Size	100, 150, 200H 80W 76D mm		100, 150, 200, 250, 300H 80W 76D mm		150, 200H 86W 82D mm	
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Type	AGA	
Enclosures Type	Single Column Type	Multiple Column Type
Appearance		
Degree of Protection	IP65 (IEC 60529, JEM1030), Waterproof (JIS C 0920) (Note)	
Material (Box)	Die-cast aluminum or cast aluminum	
Coating Color	5Y7/1 semi-gloss, melamine coating (outside only)	
Standard Operating Conditions	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)	
Enclosure Style	Wall mount (1 to 5 holes) Stand (1 to 5 holes)	Wall mount: 4 or 5 holes 2 columns, 6 holes 2 or 3 columns Stand: 4 or 5 holes 2 columns, 6 holes 2 or 3 columns
Cable Lead-in (Wall Mount Type)	Entrance hub (Gland hubs are also available) Standard depth control boxes 1 to 3 holes: HNA22 G3/4 (22 mm) 1 4 or 5 holes: HNA33 G1 (28 mm) 1 Deep type control boxes 1 or 2 holes: HNA22 G3/4 (22 mm) 1 3 to 5 holes: HNA33 G1 (28 mm) 1	Entrance hub (Gland hubs are also available) 4 to 6 holes x 2 columns: HNA33 PF1 (28 mm) 2 6 holes x 3 columns: HNA33 PF1 (28 mm) 3
Applicable Control Units	IDEC ø30 mm series control units, AM ammeter (except enclosed type units)	
Enclosure Size	Standard depth enclosures: 150, 200, 300H 86W 82D mm Deep type enclosures: 150, 200, 300H 86W 125D mm	2 columns: 320H 210W 100D mm 3 columns: 380H 280W 132D mm
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Note: The degree of protection for AGAW, AGA, and AGS depends on the control units to be mounted.

Mounted Control Units	Degree of Protection
Pushbutton Pilot light Illuminated push-button Selector switch Selector pushbutton Mono-lever switch AC cam switch AZ electromagnetic buzzer AM ammeter	IP65 (IEC 60529 JEM1030) Waterproof type (JIS C 0920)
Key switch Key reset switch Key cam switch Key selector switch	IP54 (IEC 60529 JEM1030) Splash-proof type (JIS C 0920)
Square pushbutton Square pilot light UC cam switch (Type No. starting with U)	IP40 (IEC 60529 JEM1030)

For AGA series deep type enclosures,
1 or 2 holes: HNA22 G3/4 (22 mm) 1
3 to 5 holes: HNA33 G1 (28 mm) 1

Control Stations (Selection Guide)

Type	AGS	
Enclosures Type	Single Column Type	Multiple Column Type
Appearance		
Degree of Protection	IP65 (IEC 60529, JEM1030), Waterproof (JIS C 0920) (Note 1)	
Material (Box)	Stainless steel	
Coating Color	5Y7/1 semi-gloss, melamine coating (outside only)	5Y7/1 semi-gloss, melamine coating (both inside and outside)
Standard Operating Conditions	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)	
Enclosure Style	Wall mount (1 to 5 holes) Stand (1 to 5 holes)	Wall mount (3 to 5 holes 2 columns, 3 to 5 holes 3 columns) Stand (3 to 5 holes 2 columns, 3 to 5 holes 3 columns)
Cable Lead-in (Wall Mount Type)	Reducer bushing for connecting a thick steel conduit to lead in cables 1 to 3 holes: G3/4 (22 mm) 1 4 or 5 holes: G1 (28 mm) 1	Reducer bushing for connecting a thick steel conduit to lead in cables 2 or 3 holes 2 columns: G3/4 (22 mm) 2 4 or 5 holes 2 columns: G1 (28 mm) 2 2 or 3 holes 3 columns: G3/4 (22 mm) 3 4 or 5 holes 3 columns: G1 (28 mm) 3
Applicable Control Units	IDEC ø30mm series control units, AM ammeter (except enclosed type units)	
Enclosure Size	150, 200H 90W 107D mm (1 to 3 holes) 350H 118W 107D mm (4 or 5 holes)	230, 350H 220W 108D mm (2 columns) 250, 350H 310W 108D mm (3 columns)
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Safety Precautions

Be sure to turn off power before mounting, removal, wiring, maintenance, and inspection. Otherwise, electric shock or fire hazard may occur.

Use wires of a proper size to meet voltage and current requirements. Tighten terminal screws with a proper tightening torque. Loose terminal screws may cause abnormal heat and fire. Check periodically for looseness due to vibrations.

To avoid burning your hand, use a lamp holder tool when replacing lamps.

Be sure to use within the rated specifications. Otherwise, electric shock or fire may occur.

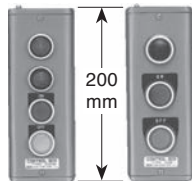
KGNW Series Control Stations

IP40 Enclosed Steel Control Stations Mounting of $\phi 22$ mm Control Units with Space-Saving Design

The KGNW control stations are designed for mounting IDEC $\phi 22$ mm (7/8 inch) control units.

- Various standard control stations are available from one to four holes with most widely used combinations of control units (contact configurations, voltage, button colors, and nameplates).
- Enclosures only are also available, in which specifically selected TW series control units can be mounted as required.

Ideal for small control stations



KGNW Control Station with four $\phi 22$ mm control units

KGN Control Station with three $\phi 30$ mm control units

- HW series can also be installed.



Specifications

Degree of Protection	IP40 (IEC 60529, JEM1030)
Material (Box)	Steel
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1)
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 $+50^{\circ}\text{C}$ (no freezing) Relative humidity: 45 to 85% (no condensation)
Enclosure Style	Wall mount (1 to 4 holes)
Cable Lead-in (Wall Mount Type)	Double knockouts On top: $\phi 22$ and $\phi 27$ mm On bottom: $\phi 16$ and $\phi 20$ mm
Applicable Control Units	IDEC $\phi 22$ mm TW series control units

• Control Unit Mounting Holes

The holes for mounting control units 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.

• Double Knockouts

The top and bottom surfaces have double knockouts.

On top: $\phi 22$ and $\phi 27$ mm double knockouts

On bottom: $\phi 16$ and $\phi 20$ mm double knockouts

One rubber bushing is supplied to protect lead-in wires from damage on the wire surface; 1- and 2-hole enclosures are supplied with a bushing to fit $\phi 20$ and $\phi 22$ mm holes, and 3- and 4-hole enclosures with a bushing to fit a $\phi 27$ mm hole.

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 (P600)

• 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 (50/60Hz)	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	DC-13 Control of electromagnets	4A	2A	—	1.1A	0.6A	—

• Common

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

• Rubber Bushing (Supplied) Color: Black

Enclosure Style	Supplied Bushing			Applicable Knockout Hole
	Type No.	Outside Dia.	Inside Dia.	
1 or 2 holes	GB-2	$\phi 30$ mm	$\phi 16$ mm	$\phi 20$ or $\phi 22$ mm
3 or 4 holes	GB-3	$\phi 38$ mm	$\phi 20$ mm	$\phi 27$ mm




$\phi 22/\phi 27$ mm Double Knockout



Rubber Bushing

Control Stations with Control Units

The control stations are available with selected combination of control units as listed below. For the dimensions and mounting centers, see the figures on page 1284.

Control Unit	Type No.	Specifications
Pushbutton 	ABW110 *	Flush, 1NO
	ABW101 *	Flush, 1NC
	ABW111 *	Flush, 1NO-1NC
	ABW411 *	ø40 mushroom, 1NO-1NC
Pilot Light  (Incandescent)	APW116 *	Round flush, 110V AC
	APW126 *	Round flush, 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), G (green), R (red)

Pilot Light: G (green), R (red), W (white)

Type List

Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NWA Nameplate Legend
Wall Mount / 1 hole	KGNW1101Y		ABW110B	ON
	KGNW1102Y		ABW411R	Without nameplate
	KGNW1103Y		APW116R	Without nameplate
	KGNW1104Y		APW126R	Without nameplate
	KGNW1105Y		ASW211	HAND-AUTO
	KGNW1106Y		ASW320	HAND-OFF-AUTO
	KGNW1107Y		ASW2K11	OFF-ON
Wall Mount / 2 holes	KGNW2101Y	 	ABW110B ABW101R	ON OFF
	KGNW2102Y	 	ABW111B ABW111R	ON OFF
	KGNW2103Y	 	APW116R APW116G	Without nameplate
	KGNW2104Y	 	APW126R APW126G	Without nameplate
	KGNW2105Y	 	APW116R ABW111R	Without nameplate STOP
	KGNW2106Y	 	APW126R ABW111R	Without nameplate STOP
	KGNW2107Y	 	APW116R ASW211	Without nameplate HAND-AUTO
	KGNW2108Y	 	APW126R ASW211	Without nameplate HAND-AUTO
	KGNW2109Y	 	APW116R ASW2K11	Without nameplate OFF-ON
	KGNW2110Y	 	APW126R ASW2K11	Without nameplate OFF-ON
	KGNW2113Y	 	ABW110B ABW411R	ON Without nameplate

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NWA Nameplate Legend
Wall Mount / 3 holes	KGNW3102Y	  	APW116R ABW110B ABW101R	Without nameplate ON OFF
	KGNW3103Y	  	APW126R ABW110B ABW101R	Without nameplate ON OFF
	KGNW3104Y	  	ABW111B ABW111R ASW211	ON OFF HAND-AUTO
	KGNW3105Y	  	APW116W APW116R APW116G	Without nameplate
Wall Mount / 4 holes	KGNW4101Y	   	APW126R APW126G ABW111B ABW111R	Without nameplate Without nameplate ON OFF
	KGNW4102Y	   	APW126R ABW111B ABW111R ASW211	Without nameplate ON OFF HAND-AUTO

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KGNW Series Control Stations

Empty Enclosures

Package Quantity: 1

Style	Type No. (Ordering Type No.)	Unit Mounting Hole	Control Unit Mounting Centers
1 hole (approx. 0.4 kg)	KGNW111Y	With	
	KGN110Y	Without	
2 holes (approx. 0.5 kg)	KGNW212Y	With	
	KGN210Y	Without	
3 holes (approx. 0.6 kg)	KGNW313Y	With	
	KGN310Y	Without	
4 holes (approx. 0.6 kg)	KGNW314Y	With	

• Control Unit Mounting Hole • Effective Depth inside the Enclosure

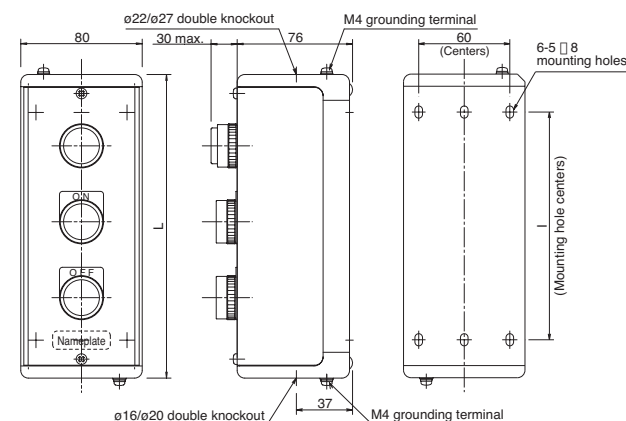
Accessories

Package Quantity: 1

Product Name	Type No.	Applicable Enclosure	Applicable Knockout Hole
Rubber Bushing	GB-2	KGNW111Y	ø20 or ø22 mm
		KGNW212Y	
	GB-3	KGNW313Y	ø27 mm
		KGNW314Y	

Dimensions

•KGNW

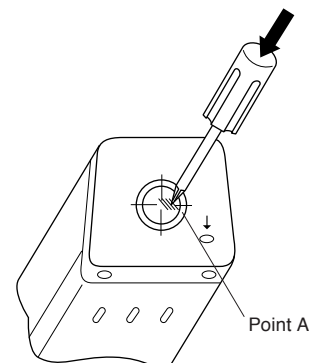


	1 hole	2 holes	3 holes	4 holes
L	100	150	200	
l	50	100	150	
Weight (Approx.)	0.3 kg	0.4 kg		0.5 kg

Instructions

•Precautions for Opening the Knockout Hole

- The metal piece for the inner hole of ø22 or ø16 mm knockout has two linked parts to the outer hole. When breaking the knockout to make an inner hole, strike the inner metal piece at the cut parts (the hatched parts shown as point A at right) using a screwdriver tip or similar tool.
- When opening a larger hole of ø27 or ø20 mm, first make a smaller hole as described above. Then break the knockout for the larger hole using pliers.



Ordering Information

- When ordering control stations with control units: Specify the Ordering Type No. of the control station.

- When ordering enclosures without control units: Specify the following items.

- Ordering Type No. of the enclosure
- Ordering Type No. and specifications of the control unit to be mounted (lens color, button color, etc.)
- Nameplate
- Other specifications

Ordering Example

Type No. of Enclosure	KGNW313Y	
Control Unit and Nameplate	①	APW126R
	②	ABW210G, with NWA-1
	③	ABW201R, with NWA-2

Note: Any ø22 mm TW series control units are selectable. Take the effective depth inside the enclosure into consideration.

KGN Series Control Stations

IP40 Enclosed Steel Control Stations For ø30 mm Series Control Units Various Control Stations are Available

Various control stations are available from one to five holes with most widely used combinations of control units (contact configurations, voltage, button colors, and nameplates).



Specifications

Degree of Protection	IP40 (IEC 60529, JEM1030)
Material (Enclosure)	Steel
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1)
Rated Insulation Voltage	600V (Buzzer: 250V)
Insulation Resistance	5 MΩ minimum
Dielectric Strength (Note 1)	Between live and dead parts: 2500V AC, 1 minute
Standard Operating Conditions (Note 2)	Ambient temperature: -25 to +50°C (no freezing) Relative humidity: 45 to 85% (no condensation)
Enclosure Style	Wall mount (1 to 5 holes)
Cable Lead-in (Wall Mount Type)	Double knockouts On top: ø22 and ø27 mm On bottom: ø16 and ø20 mm
Applicable Control Units	IDEC ø30 mm series control units

Note 1: Buzzer: 2000V AC, 1 minute

Note 2: 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 (P600)

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 (50/60Hz)	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	DC-13 Control of electromagnets	4A	2A	—	1.1A	0.6A —

Common

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

Rubber Bushing (Supplied) Color: Black

Enclosure Style	Supplied Bushing			Applicable Knockout Hole
	Type No.	Outside Dia.	Inside Dia.	
1 or 2 holes	GB-2	ø30 mm	ø16 mm	ø20 or ø22 mm
3 or 4 holes	GB-3	ø38 mm	ø20 mm	ø27 mm

Control Unit Mounting Holes

The holes for mounting control units are 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

Double Knockouts

The top and bottom surfaces have double knockouts.

On top: ø22 and ø27 mm double knockouts

On bottom: ø16 and ø20 mm double knockouts

One rubber bushing is supplied to protect lead-in wires from damage on the wire surface; 1- and 2-hole enclosures are supplied with a bushing to fit ø20 and ø22 mm holes, and 3- and 5-hole enclosures with a bushing to fit a ø27 mm hole.



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Control Stations with Control Units

The control stations are available with a selected combination of control units as listed below. For the dimensions and mounting centers, see the figures on page 1287.

Control Unit	Type No.	Specifications
Pushbutton 	ABN110 *	Flush, 1NO
	ABN101 *	Flush, 1NC
	ABN111 *	Flush, 1NO-1NC
	ABN311R	ø40 mushroom, 1NO-1NC
	ABBN1110 **	Flush, double beam latching, 1NO
	ABBN1111 **	Flush, double beam latching, 1NO-1NC
	ATN420	Toggle lever, 2NO
Pilot Light (Incandescent)	HN1E-BV411R	Emergency stop, 1NO-1NC
	APN118 *	Dome, 110V AC (2W)
Selector Switch 	ASN311	Knob, 2-position, 1NO-1NC
	ASN111	Knob, 3-position, 1NO-1NC
	ASN3K11	Key, 2-position, 1NO-1NC
Buzzer 	AZ11N	110V AC
	AZ12N	220V AC

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.

Type List

Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall Mount / 1 hole	KGN1101NY		ABN110	ON
	KGN1102NY		ABN311R	OFF
	KGN1103NY		APN118R	Without nameplate
	KGN1104NY		APN128R	Without nameplate
	KGN1105NY		ASN311	HAND-AUTO
	KGN1106NY		ASN111	HAND-OFF-AUTO
	KGN1107NY		ASN3K11	OFF-ON
	KGN1108NY		AZ11N	Without nameplate
	KGN1110NY		ATN420	Without nameplate ON-OFF on bezel
	KGN1111NY		HN1E-BV411R	EMERGENCY STOP
Wall Mount / 2 holes	KGN2101NY		ABN110 ABN101	ON OFF
	KGN2102NY		ABN111 ABN111	ON OFF
	KGN2103NY		APN118R APN118G	Without nameplate
	KGN2104NY		APN128R APN128G	Without nameplate
	KGN2105NY		APN118R ABN111	Without nameplate STOP
	KGN2106NY		APN128R ABN111	Without nameplate STOP
	KGN2107NY		APN118R ASN311	Without nameplate HAND-AUTO

Control Station		Mounted Control Units			
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend	
Wall Mount / 2 holes	KGN2108NY		APN128R ASN311	Without nameplate HAND-AUTO	
	KGN2109NY		APN118R ASN3K11	Without nameplate OFF-ON	
	KGN2110NY		APN128R ASN3K11	Without nameplate OFF-ON	
	KGN2111NY		ABBN1110	ON OFF	
	KGN2112NY		ABBN1111	ON OFF	
	KGN2113NY		ABN110 ABN311R	ON OFF	
	KGN2114NY		APN118R ATN420	Without nameplate ON-OFF on bezel	
	KGN2116NY		AZ11N ABN111	Without nameplate	
	KGN2117NY		AZ12N ABN111	Without nameplate	
	KGN2118NY		AZ11N APN118R	Without nameplate	
	KGN2119NY		AZ12N APN128R	Without nameplate	
	Wall Mount / 3 holes	KGN3102NY		APN118R ABN110 ABN101	Without nameplate ON OFF
		KGN3103NY		APN128R ABN110 ABN101	Without nameplate ON OFF
		KGN3104NY		ABN111 ABN111 ASN311	ON OFF HAND-AUTO
KGN3106NY			APN128W APN128R APN128G	Without nameplate	
KGN3107NY			APN118R ABBN1110	Without nameplate ON OFF	
KGN3108NY			APN128R ABBN1110	Without nameplate ON OFF	
Wall Mount / 4 holes		KGN4101NY		APN128R APN128G ABN111 ABN111	Without nameplate Without nameplate ON OFF
	KGN4102NY		APN128R ABN111 ABN111 ASN311	Without nameplate ON OFF HAND-AUTO	

Empty Enclosures

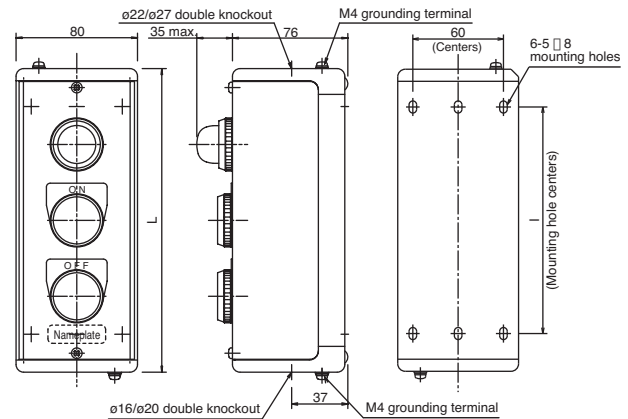
Package Quantity: 1

Style	Type No. (Ordering Type No.)	Unit Mounting Hole	Control Unit Mounting Centers
1 hole (approx. 0.4 kg)	KGN111Y	With	
	KGN110Y	Without	
2 holes (approx. 0.5 kg)	KGN211Y	With	
	KGN210Y	Without	
3 holes (approx. 0.6 kg)	KGN311Y	With	
	KGN310Y	Without	
4 holes (approx. 0.7 kg)	KGN411Y	With	
	KGN410Y	Without	
5 holes (approx. 0.8 kg)	KGN511Y	With	
	KGN510Y	Without	

• Control Unit Mounting Hole • Effective Depth inside the Enclosure

Dimensions

• KGN Control Station (Wall Mount)

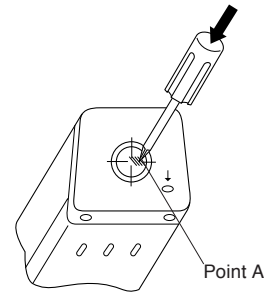


	1 hole	2 holes	3 holes	4 holes	5 holes
L	100	150	200	250	300
I	50	100	150	200	250
Weight (Approx.)	0.3 kg	0.4 kg	0.5 kg	0.6 kg	0.7 kg

Instructions

• Precautions for Opening the Knockout Hole

- The metal piece for the inner hole of $\phi 22$ or $\phi 16$ mm knockout has two linked parts to the outer hole. When breaking the knockout to make an inner hole, strike the inner metal piece at the cut parts (the hatched parts shown as point A at right) using a screwdriver tip or similar tool.
- When opening a larger hole of $\phi 27$ or $\phi 20$ mm, first make a smaller hole as described above. Then break the knockout for the larger hole using pliers.



Ordering Information

• **When ordering control stations with control units:**
Specify the Ordering Type No. of the control station.

• **When ordering enclosures without control units:**
Specify the following items.

- Ordering Type No. of the enclosure
- Ordering Type No. and specifications of the control unit to be mounted (lens color, button color, etc.)
- Nameplate
- Other specifications

Ordering Example

① ② ③	Type No. of Enclosure	KGN311Y
	Control unit and Nameplate	① APN128R
		② ABN210B, with NA-1
	③ ABN201R, with NA-2	

Note: Any $\phi 30$ mm series Control Units are selectable. However, take the effective depth inside the enclosure into consideration.

Accessories

Package Quantity: 1

Product Name	Type No.	Applicable Enclosure	Applicable Knockout Hole
Rubber Bushing	GB-2	KGN111Y	$\phi 20$ or $\phi 22$ mm
		KGN110Y	
		KGN211Y	
		KGN210Y	
	GB-3	KGN311Y	$\phi 27$ mm
		KGN310Y	
		KGN411Y	
		KGN410Y	
		KGN511Y	
		KGN510Y	

Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm. Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

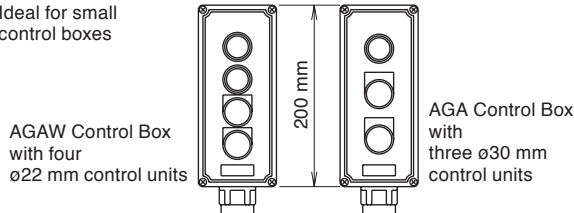
AGAW Series Control Stations

IP65 Waterproof Aluminum Control Stations for $\phi 22$ mm Control Units

AGAW control stations are designed for mounting IDEC $\phi 22$ mm (7/8 inch) control units.

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

Ideal for small control boxes



- HW series can also be installed.



Specifications

Degree of Protection (Note)	IP65 (IEC 60529, JEM1030) (Key selector switch: Splash-proof IP54)
Material (Box)	Aluminum
Coating Color (Melamine 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)
Enclosure Style	Wall mount (1 to 4 holes) Stand (1 to 4 holes)
Cable Lead-in (Wall Mount Type)	Entrance hub 1 to 3 holes: HNA22 G3/4 (22 mm) 4 holes: HNA33 G1 (28 mm)
Applicable Control Units	IDEC $\phi 22$ mm TW series control units

Note: The degree of protection depends on the control units mounted in the enclosure. When IP65 control units are mounted, the entire control station has IP65 characteristics. (See page 1280)

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 (P600)

• 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)

• Control Unit Mounting Holes

The holes for mounting control units 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 Type)

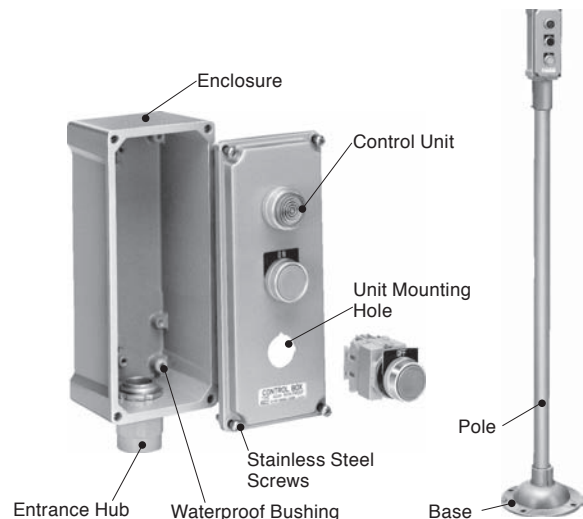
An entrance hub made of aluminum is supplied for connecting a steel conduit to lead in cables.

1 to 3 holes: With HNA22 G3/4 for 22 mm conduit
4 holes: With HNA33 G1 for 28 mm conduit

HNAG type gland hubs for lead in cables are also available.




• Stand Pole (Stand Type)

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



Control Stations with Control Units





















The control stations are available with a selected combination of control units as listed below. For the dimensions and mounting centers, see the figures on page 1290.

Control Unit	Type No.	Specifications
Pushbutton 	ABW110 *	Flush, 1NO
	ABW101 *	Flush, 1NC
	ABW111 *	Flush, 1NO-1NC
	ABW411 *	ø40 mushroom, 1NO-1NC
Pilot Light  (Incandescent)	APW116 *	Round flush, 110V AC
	APW126 *	Round flush, 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), G (green), R (red)
 Pilot Light: G (green), R (red), W (white)

Type List

Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NWA Nameplate Legend
Wall Mount / 1 hole	AGAW1101Y		ABW110B	ON
	AGAW1102Y		ABW411R	Without nameplate
	AGAW1105Y		ASW211	HAND-AUTO
	AGAW1107Y *		ASW2K11	OFF-ON
Stand / 1 hole	AGAW1101SY		ABW110B	ON
	AGAW1102SY		ABW411R	OFF
Wall Mount / 2 holes	AGAW2101Y	 	ABW110B ABW101R	ON OFF
	AGAW2102Y	 	ABW111B ABW111R	ON OFF
	AGAW2103Y	 	APW116R APW116G	Without nameplate
	AGAW2104Y	 	APW126R APW126G	Without nameplate
	AGAW2105Y	 	APW116R ABW111R	Without nameplate STOP
	AGAW2106Y	 	APW126R ABW111R	Without nameplate STOP
	AGAW2107Y	 	APW116R ASW211	Without nameplate HAND-AUTO

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

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NWA Nameplate Legend
Wall Mount / 2 holes	AGAW2108Y	 	APW126R ASW211	Without nameplate HAND-AUTO
	AGAW2109Y *	 	APW116R ASW2K11	Without nameplate OFF-ON
	AGAW2110Y *	 	APW126R ASW2K11	Without nameplate OFF-ON
	AGAW2113Y	 	ABW110B ABW411R	ON Without nameplate
Stand / 2 holes	AGAW2101SY	 	ABW110B ABW101R	ON OFF
Wall Mount / 3 holes	AGAW3102Y	  	APW116R ABW110B ABW101R	Without nameplate ON OFF
	AGAW3103Y	  	APW126R ABW110B ABW101R	Without nameplate ON OFF
	AGAW3104Y	  	ABW111B ABW111R ASW211	ON OFF HAND-AUTO
	AGAW3102SY	  	APW116R ABW110B ABW101R	Without nameplate ON OFF
Stand / 3 holes	AGAW3104SY	  	ABW111B ABW111R ASW211	ON OFF HAND-AUTO
	Wall - Stand / 4 holes	Wall Mount AGAW4101Y	   	APW126R APW126G ABW111B ABW111R
Stand AGAW4101SY		  		
Wall Mount AGAW4102Y		   	APW126R ABW111B ABW111R ASW211	Without nameplate ON OFF HAND-AUTO
Stand AGAW4102SY		  		

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

Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm. Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

AGAW Series Control Stations

Empty Enclosures

Package Quantity: 1

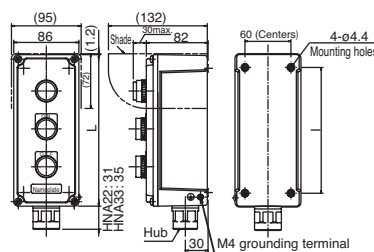
Style	Type No. (Ordering Type No.)	Unit Mounting Hole	Control Unit Mounting Centers
1 hole (approx. 0.6 kg)	AGAW211Y	With	
	AGA210Y	Without	
2 holes (approx. 0.6 kg)	AGAW212Y	With	
3 holes (approx. 0.7 kg)	AGAW313Y	With	
	AGA310Y	Without	
4 holes (approx. 0.7 kg)	AGAW314Y	With	

Control Unit Mounting Hole	Effective Depth inside the Enclosure

• 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

• AGAW Control Station (Wall Mount)

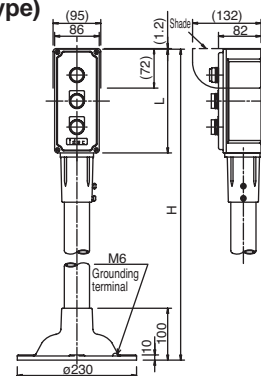


- Entrance Hub (attached)
 - 1 to 3 holes: HNA22 G3/4 (22 mm)
 - 4 holes: HNA33 G1 (28 mm)
- Gland hubs for leading in cables are also available.

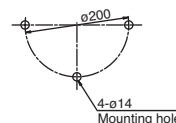
Type No.	Applicable Cable Diameter (R)
HNG21	8, 10, 12
HNAG22	13, 15, 17
HNAG33	18, 20, 22

	1 hole	2 holes	3 holes	4 holes
L	150	200	200	200
l	114	164	164	164
Weight (Approx.)	0.6 kg	0.6 kg	0.6 kg	0.7 kg

• AGAW Control Station (Stand Type)



	1 hole	2 holes	3 holes	4 holes
H	1350	1400	1400	1400
L	150	200	200	200
Weight (Approx.)	6.1 kg	6.2 kg	6.2 kg	6.2 kg



Accessory (Options)

Package Quantity: 1

Name & Shape	Type No.	Description & Dimensions
<p>Enclosure Shade</p> <p>Material: SPCC Thickness: 1 mm Weight: Approx. 0.25 kg</p>	AGZ-S1Y	<ul style="list-style-type: none"> • Protection for control units against direct sunlight and falling objects. • Color: Yellow (semi-gloss) • Shade mounting hole
<p>Stand Pole</p> <p>Weight: Approx. 5.6 kg</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.

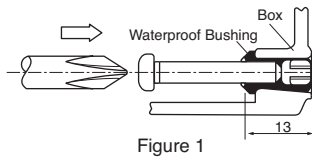


Figure 1

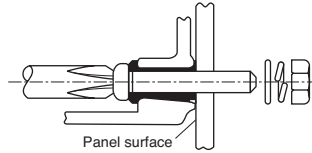


Figure 2

Ordering Information

• When ordering control stations with control units:

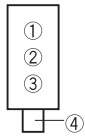
Specify the Ordering Type No. of the control station.

• When ordering enclosures without control units:

Specify the following items.

1. Ordering Type No. of the enclosure
2. Ordering Type No. and specifications of the control units 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 Ordering Type No. and the finished cable outside diameter (R).
5. Other specifications

Ordering Example



Type No. of Enclosure		AGAW313Y
Control Unit and Nameplate	①	APW126R
	②	ABW210G, with NWA-1
	③	ABW201R, with NWA-2
Lead-in Fitting	④	HNAG22 R15

Note: Any ø22 mm TW series control units are selectable. Take into consideration the degree of protection of the control unit and the effective depth of the enclosure.

Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm. Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

AGA Series Control Stations (Single Column)

IP65 Waterproof Aluminum Control Stations for ø30 mm Control Units

Various control stations are available from one to five holes with most widely used combinations of control units (contact configurations, voltage, button colors, and nameplates).

- Versatile combinations of control units are possible. Select from a wide variety of 30 mm (1-13/64 inch) dia. control units as required.
- In addition to standard depth enclosures, deep enclosures are also available for mounting illuminated pushbuttons which require a large depth behind the mounting surface. (See page 1295 for more details).



Specifications

Degree of Protection (Note 1)	IP65 (IEC 60529, JEM1030) (Key selector switch: Splash-proof IP54)
Material (Enclosure)	Aluminum
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 (1 to 5 holes) Stand (1 to 5 holes)
Cable Lead-in Hole (Wall Mount Type)	Entrance hub (Gland hub also available) 1 to 3 holes: HNA22 G3/4 (22 mm) 4 or 5 holes: HNA33 G1 (28 mm) (Standard control stations)
Applicable Control Units	IDEC ø30 mm series control units, AZ buzzer and AM ammeter (except enclosed type units)

Note 1: The degree of protection depends on the control units mounted on the enclosure. When IP65 control units are mounted, the entire control station has IP65 characteristics. (See page 1280)

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 (P600)

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 (50/60Hz)	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	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)

Control Unit Mounting Holes

The holes for mounting control units are 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

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 Type)

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

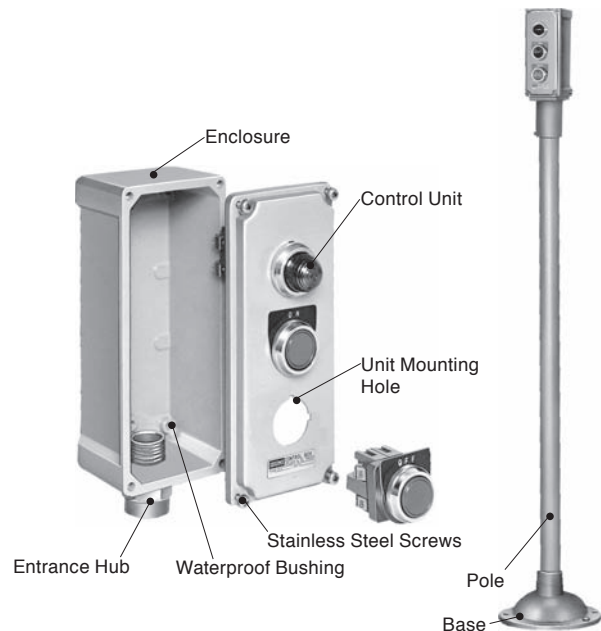
1 to 3 holes: With HNA22 G3/4 for 22mm conduit

4 or 5 holes: With HNA33 G1 for 28mm conduit

HNA type gland hubs for leading in cables are also available.

Stand Pole (Stand Type)

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



AGA Series Control Stations (Single Column)

Control Stations with Control Units

Control boxes are available with a selected combination of control units as listed below. For the dimensions and mounting centers, see the figures on pages 1295 and 1296.

• Control Units Mounted on Standard Control Stations

Control Unit	Type No.	Specifications
Pushbutton (PB)	ABN110 *	Flush, 1NO
	ABN101 *	Flush, 1NC
	ABN111 *	Flush, 1NO-1NC
	ABN311R	ø40 mushroom, 1NO-1NC
	ABBN1110 **	Flush, double beam latching, 1NO
	ABBN1111 **	Flush, double beam latching, 1NO-1NC
	ATN420	Toggle lever, 2NO
	HN1E-BV411R	Emergency stop, 1NO-1NC
Pilot Light (PL) (Incandescent)	APN118 *	Dome, 110V AC (2W)
	APN128 *	Dome, 220V AC (2W)
Selector Switch (SS)	ASN311	Knob, 2-position, 1NO-1NC
	ASN111	Knob, 3-position, 1NO-1NC
	ASN3K11	Key, 2-position, 1NO-1NC
Buzzer (SS)	AZ11N	110V AC
	AZ12N	220V AC
Meter (A)	AM ammeter	Specify capacity (Type 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.

Capacity and Type No. of AM Ammeters

	Capacity	Type No. (Ordering Type No.)	Remarks
Ammeter	5A (nominal)	AM21B	• Use a current transformer on ammeters of 30A rating or more.
	10A (nominal)	AM22B	
	15A (nominal)	AM23B	
	30/5A (nominal)	AM24CB	
	60/5A (nominal)	AM25CB	
	100/5A (nominal)	AM26CB	
	150/5A (nominal)	AM27CB	
	200/5A (nominal)	AM28CB	
300/5A (nominal)	AM29CB		
	/5A (nominal)	AM2CB *	

Note 1: When ordering, specify the Type No. Also specify a current value for the ammeter marked with *.

Note 2: The dial has a double-expanded scale. Also available are for triple-expanded scales, 1A meters and other special ratings. Contact IDEC for details about other special specifications.

Type List

Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall Mount / 1 hole	AGA1101Y	(PB)	ABN110	ON
	AGA1102Y	(PB)	ABN311R	OFF
	AGA1103Y	(PL)	APN118R	Without nameplate
	AGA1104Y	(PL)	APN128R	Without nameplate
	AGA1105Y	(SS)	ASN311	HAND-AUTO
	AGA1106Y	(SS)	ASN111	HAND-OFF-AUTO

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall Mount / 1 hole	AGA1107Y *	(SS)	ASN3K11	OFF-ON
	AGA1108Y	(BZ)	AZ11N	Without nameplate
	AGA1109Y	(BZ)	AZ12N	Without nameplate
	AGA1110Y	(PB)	ATN420	Without nameplate ON-OFF on bezel
	AGA1111Y	(PB)	HN1E-BV411R	EMERGENCY STOP
Stand / 1 hole	AGA1101SY	(PB)	ABN110	ON
	AGA1102SY	(PB)	ABN311R	OFF
	AGA1111SY	(PB)	HN1E-BV411R	EMERGENCY STOP
Wall Mount / 2 holes	AGA2101Y	(PB) (PB)	ABN110 ABN101	ON OFF
	AGA2102Y	(PB) (PB)	ABN111 ABN111	ON OFF
	AGA2103Y	(PL) (PL)	APN118R APN118G	Without nameplate
	AGA2104Y	(PL) (PL)	APN128R APN128G	Without nameplate
	AGA2105Y	(PL) (PB)	APN118R ABN111	Without nameplate STOP
	AGA2106Y	(PL) (PB)	APN128R ABN111	Without nameplate STOP
	AGA2107Y	(PL) (SS)	APN118R ASN311	Without nameplate HAND-AUTO
	AGA2108Y	(PL) (SS)	APN128R ASN311	Without nameplate HAND-AUTO
	AGA2110Y *	(PL) (SS)	APN128R ASN3K11	Without nameplate OFF-ON
	AGA2111Y	(PB) (PB)	ABBN1110	ON-OFF
	AGA2112Y	(PB) (PB)	ABBN1111	ON-OFF
	AGA2113Y	(PB) (PB)	ABN110 ABN311R	ON OFF
	AGA2115Y	(PL) (PB)	APN128R ATN420	Without nameplate ON-OFF on bezel
	AGA2116Y	(BZ) (PB)	AZ11N ABN111	Without nameplate
	AGA2117Y	(BZ) (PB)	AZ12N ABN111	Without nameplate
	AGA2118Y	(BZ) (PL)	AZ11N APN118R	Without nameplate
	AGA2119Y	(BZ) (PL)	AZ12N APN128R	Without nameplate

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

AGA Series Control Stations (Single Column)

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Stand / 2 holes	AGA2101SY		ABN110 ABN101	ON OFF
	AGA2107SY		APN118R ASN311	Without nameplate HAND-AUTO
Wall Mount / 3 holes	AGA3102Y		APN118R ABN110 ABN101	Without nameplate ON OFF
	AGA3103Y		APN128R ABN110 ABN101	Without nameplate ON OFF
	AGA3104Y		ABN111 ABN111 ASN311	ON OFF HAND-AUTO
	AGA3105Y		APN118W APN118R APN118G	Without nameplate
	AGA3106Y		APN128W APN128R APN128G	Without nameplate
	AGA3107Y		APN118R ABBN1110	Without nameplate ON OFF
	AGA3108Y		APN128R ABBN1110	Without nameplate ON OFF

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Stand / 3 holes	AGA3102SY		APN118R ABN110 ABN101	Without nameplate ON OFF
	AGA3104SY		ABN111 ABN111 ASN311	ON OFF HAND-AUTO
Wall · Stand / 4 holes	Wall Mount AGA4101Y		APN128R APN128G ABN111 ABN111	Without nameplate Without nameplate ON OFF
	Stand AGA4101SY			
	Wall Mount AGAM4101Y		(Note) AM ammeter	Without nameplate ON OFF
	Stand AGAM4101SY		ABN111 ABN111	
	Wall Mount AGA4102Y		APN128R ABN111 ABN111 ASN311	Without nameplate ON OFF HAND-AUTO
	Stand AGA4102SY			
Wall · Stand / 5 holes	Wall Mount AGA5101Y		APN128R APN128G ABN111 ABN111 ASN311	Without nameplate Without nameplate ON OFF HAND-AUTO
	Stand AGA5101SY			
	Wall Mount AGAM5101Y		(Note) AM ammeter	Without nameplate ON OFF
	Stand AGAM5101SY		APN128R ABN111 ABN111	

Note: Specify the Type No. of the meter to select a required capacity.

AGA Series Control Stations (Single Column)

Empty Enclosures

Package Quantity: 1

Style		1 or 2 holes			3 holes		4 or 5 holes				
Type No.	①	AGA210Y	AGA211Y	AGA212Y	AGA310Y	AGA311Y	AGA411Y	AGA412Y	AGA510Y	AGA511Y	AGA512Y
	②	AGA210DY	AGA211DY	AGA212DY	AGA310DY	AGA311DY	AGA411DY	AGA412DY	AGA510DY	AGA511DY	AGA512DY
	③	AGA210HLY	AGA211HLY	AGA212HLY	AGA310HLY	AGA311HLY	AGA411HLY	AGA412HLY	AGA510HLY	AGA511HLY	AGA512HLY
Appearance											
Weight (Approx.)		① 0.6 kg ② 1.0 kg ③ 0.5 kg			① 0.7 kg ② 1.2 kg ③ 0.6 kg		① 0.9 kg ② 1.4 kg ③ 0.8 kg				
		① : Standard depth enclosure with an entrance hub 1 to 3 holes: With HNA22 G3/4 entrance hub for 22 mm conduit 4 or 5 holes: With HNA33 G1 entrance hub for 28 mm conduit					• Control Unit Mounting Holes • Effective Depth inside the Enclosure				
		② : Deep enclosure with an entrance hub 1 or 2 holes: With HNA22 G3/4 entrance hub for 22 mm conduit 3 to 5 holes: With HNA33 G1 entrance hub for 28 mm conduit									
		③ : Standard depth enclosure without an entrance hub 1 to 3 holes: With a threaded hole G3/4 (22 mm) at the bottom 4 or 5 holes: With a threaded hole G1 (28 mm) at the bottom									

In addition to the enclosures shown above, enclosures with a shade and stand type enclosures are also available. See the list below and page 1296.

• Other Types (For 1, 2 or 3 holes)

Package Quantity: 1

Style		Hub	Shade	Stand	1 or 2 holes			3 holes	
Type No. (Ordering Type No.)	Standard depth enclosure	X	X		AGA210KY	AGA211KY	AGA212KY	AGA310KY	AGA311KY
				X	AGA210SY	AGA211SY	AGA212SY	AGA310SY	AGA311SY
			X	X	AGA210KSY	AGA211KSY	AGA212KSY	AGA310KSY	AGA311KSY
	Deep enclosure	X	X		AGA210KPLY	AGA211KPLY	AGA212KPLY	AGA310KPLY	AGA311KPLY
				X	AGA210DSY	AGA211DSY	AGA212DSY	AGA310DSY	AGA311DSY
			X	X	AGA210DKSY	AGA211DKSY	AGA212DKSY	AGA310DKSY	AGA311DKSY
Appearance									
Weight (Approx.)	Standard depth enclosure	With a shade			0.85 kg	0.85 kg	0.85 kg	0.95 kg	0.95 kg
		Stand type			6.1 kg	6.1 kg	6.1 kg	6.2 kg	6.2 kg
		Stand type with a shade			6.4 kg	6.4 kg	6.4 kg	6.5 kg	6.5 kg
	Deep enclosure	With a shade (without a hub)			0.75 kg	0.75 kg	0.75 kg	0.85 kg	0.85 kg
		With a shade			1.25 kg	1.25 kg	1.25 kg	1.45 kg	1.45 kg
		Stand type			6.75 kg	6.75 kg	6.75 kg	6.95 kg	6.95 kg
		Stand type with a shade			7.0 kg	7.0 kg	7.0 kg	7.1 kg	7.1 kg

AGA Series Control Stations (Single Column)

• Other Types (For 4 or 5 holes)

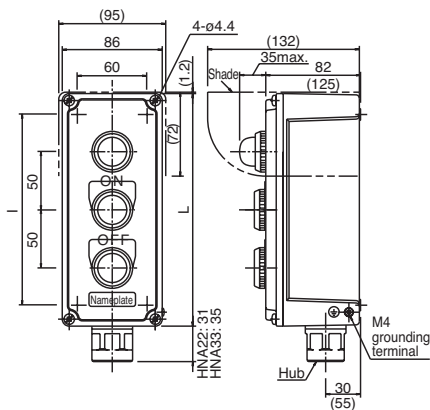
Package Quantity : 1

Style		Hub	Shade	Stand	4 or 5 holes					
Type No. (Ordering Type No.)	Standard depth enclosure	X	X		AGA411KY	AGA412KY	AGA510KY	AGA511KY	AGA512KY	
				X	AGA411SY	AGA412SY	AGA510SY	AGA511SY	AGA512SY	
			X	X	AGA411KSY	AGA412KSY	AGA510KSY	AGA511KSY	AGA512KSY	
			X		AGA411KHLY	AGA412KHLY	AGA510KHLY	AGA511KHLY	AGA512KHLY	
			X	X	AGA411DKY	AGA412DKY	AGA510DKY	AGA511DKY	AGA512DKY	
	Deep enclosure				X	AGA411DSY	—	AGA510DSY	AGA511DSY	AGA512DSY
			X	X		AGA411DKSY	—	AGA510DKSY	AGA511DKSY	AGA512DKSY
					X					
			X	X						
Appearance										
Weight (Approx.)	Standard depth enclosure	With a shade			1.15 kg	1.15 kg	1.15 kg	1.15 kg	1.15 kg	
		Stand type			6.4 kg	6.4 kg	6.4 kg	6.4 kg	6.4 kg	
		Stand type with a shade			6.65 kg	6.65 kg	6.65 kg	6.65 kg	6.65 kg	
		With a shade (without a hub)			1.05 kg	1.05 kg	1.05 kg	1.05 kg	1.05 kg	
	Deep enclosure	With a shade			1.65 kg	1.65 kg	1.65 kg	1.65 kg	1.65 kg	
		Stand type			6.9 kg	—	6.9 kg	6.9 kg	6.9 kg	
		Stand type with a shade			7.15 kg	—	7.15 kg	7.15 kg	7.15 kg	

• For details about enclosures without control units, see page 1295.

Dimensions

• AGA Control Station (Wall Mount)



Dimensions in () for a control box with a shade.

	1 hole	2 holes	3 holes	4 holes	5 holes
L	150	200	200	300	300
I	114	164	164	264	264
Weight (Approx.)	0.6 kg	0.7 kg	0.7 kg	0.9 kg	0.9 kg

• Entrance Hub (Supplied)

(Standard depth enclosures)

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

4 or 5 holes: With HNA33 G1 for 28 mm conduit

(Deep enclosures with an entrance hub)

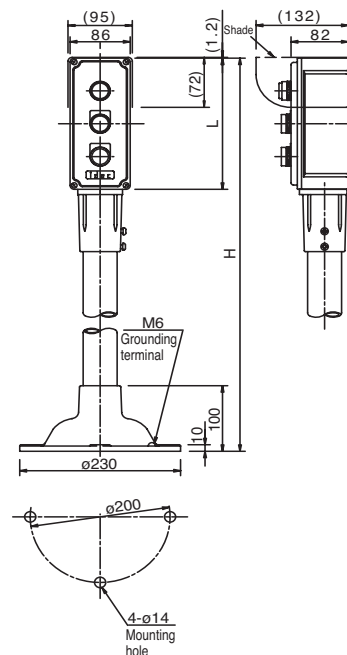
1 or 2 holes: With HNA22 G3/4 for 22 mm conduit

3 to 5 holes: With HNA33 G1 for 28 mm conduit

• Gland hubs for leading in cables are also available.

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

• AGA Control Station (Stand Type)



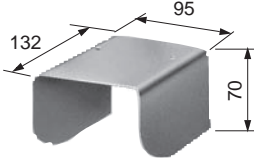
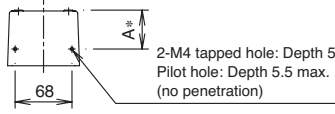

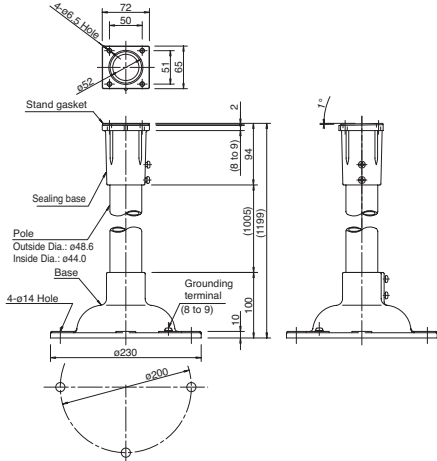
Dimensions in () for a control box with a shade.

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

AGA Series Control Stations (Single Column)

Accessory (Options)

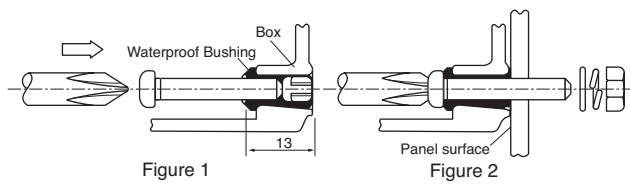
Package Quantity: 1

Name & Shape	Type No. (Ordering Type No.)	Description & Dimensions
Enclosure Shade  Material: SPCC Thickness: 1 mm Weight: Approx. 0.25 kg	AGZ-S1Y	<ul style="list-style-type: none"> Protection for control units against direct sunlight and falling objects. Color: Yellow semi-gloss (Munsell 5Y7/1) Shade mounting hole  <p>* Dimension A AGA210, 310, 510: 46.5 mm AGA210D, 310D, 510D: 90 mm</p>
Stand Pole  Weight: Approx. 5.6 kg	AGZ-S205	<ul style="list-style-type: none"> For replacement of the stand pole. Color: Yellow semi-gloss (Munsell 5Y7/1) 

Instructions

• Precautions for Mounting on Panel (Wall)

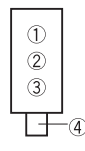
1. Insert M4 screws into the waterproof bushings at all four corners inside the box. Push the screws with a screwdriver and penetrate the bushings (Figure 1).
2. Thrust the screws into panel holes and secure the screws with nuts (Figure 2). Waterproof characteristics are not affected by piecing the bushings with screws.



Ordering Information

- **When ordering control stations with control units:**
Specify the Ordering Type No. of the control station.
- **When ordering enclosures without control units:**
Specify the following items.
 1. Ordering Type No. of the enclosure
 2. Ordering Type No. and specifications of the control units to be mounted (lens color, button color, etc.)
 3. Nameplate
 4. Lead-in fitting
Only when ordering the gland hub for lead in cables, specify the Ordering Type No. and the cable outside diameter (R).
 5. Other specifications

Ordering Example

	Type No. of Enclosure	AGA311Y	
	Control Unit and Nameplate	①	APN128R
		②	ABN210B, with NA-1
Lead-in Fitting	③	ABN201R, with NA-2	
	④	HNAG22 R15	

Note: Any ø30 mm series control units are selectable. Take into consideration the degree of protection of the control unit and the effective depth of the enclosure.

- Flush Silhouette
- Control Units
- Display Lights
- Display Units
- Safety Products
- Terminal Blocks
- Comm. Terminals
- AS-Interface
- Relays & Timers
- Sockets
- Circuit Protectors
- Power Supplies
- PLCs & SmartRelay
- Operator Interfaces
- Sensors
- Control Stations
- Explosion Protection
- References

AGA Series Control Stations (Multiple Column)

IP65 Waterproof Multiple Column Aluminum Control Stations Versatile Combinations of Control Units

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

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

Specifications

Type	AGA480 • 580	AGA680 • 690
Degree of Protection (Note 1)	IP65 (IEC 60529, JEM1030)	
Material (Enclosure)	Aluminum	
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/Stand Types (4 × 2 or 5 × 2 holes)	Wall mount/Stand Types (6 × 2 or 6 × 3 holes)
Cable Lead-in (Wall Mount Type)	Entrance hub (Gland hub also available) HNA33 G1 (28 mm)	
Applicable Control Units	IDEC ø30 mm series control units, AZ buzzer and AM ammeter (except enclosed type units)	

Note 1: The degree of protection depends on the control units mounted on the enclosure. When IP65 control units are mounted, the entire control station has IP65 characteristics. (See page 1280)

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

Note 3: Buzzer: -10 to +40°C

Contact Ratings (Contact Block)

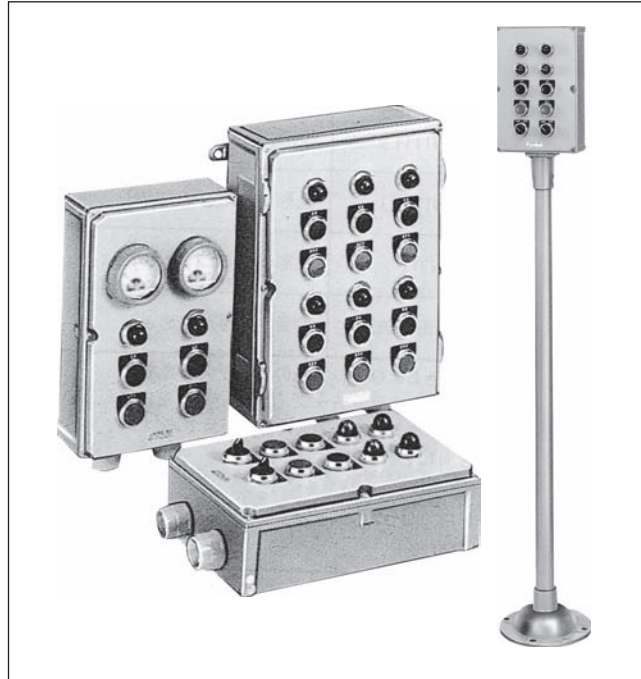
Contact block	Rated Insulation Voltage	600V
	Rated Thermal Current	10A
	Contact Ratings by Utilization Category IEC60947-5-1	AC-15 (A600) DC-13 (P600)

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)



Control Unit Mounting Holes

The holes for mounting control units are 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

Lead-in Fittings (Wall Mount Type)

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)

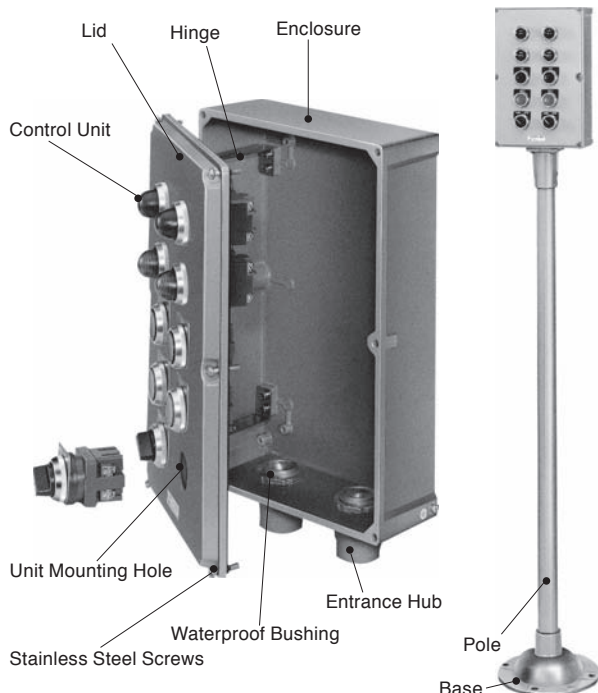
AGA680 (6 × 2 holes): With two HNA33 G1 for 28 mm conduit

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

Gland hubs for lead in cables are also available.

Stand Pole (Stand Type)

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



AGA Series Control Stations (Multiple Column)

Control Stations with Control Units

Control stations are available with selected combination of control units as listed below. For the dimensions and mounting centers, see the figures on pages 1299 and 1300.

• Control Units Mounted in Control Stations

Control Unit	Type No.	Specifications
Pushbutton (PB)	ABN111 *	Flush, 1NO-1NC
Pilot Light (PL) (Incandescent)	APN128 *	Dome, 220V AC (2W)
Selector Switch (SS)	ASN311	Knob, 2-position, 1NO-1NC
Meter (A)	AM ammeter (See page 1493)	Specify capacity (Type 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.

Type List

• AGA480 Control Box (Wall mount/Stand Type)

Package Quantity: 1

Control Box		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
4 × 2 holes	Wall Mount AGA4801Y		APN128R APN128G ABN111 ABN111	Without nameplate Without nameplate ON OFF
	Stand AGA4801SY		ABN111 ABN111	ON OFF
	Wall Mount AGAM4801Y		(Note) AM ammeter	Without nameplate
	Stand AGAM4801SY		ABN111 ABN111	ON OFF

Note: Specify the Type No. of the meter to select a required capacity.

- Control stations with a shade are available. See page 1300 for more details.

• AGA580/AGA690 Control Box (Wall mount/Stand Type)

Package Quantity: 1

Control Box		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
5 × 2 holes	Wall Mount AGA5801Y		APN128R APN128G ABN111 ABN111 ASN311	Without nameplate Without nameplate ON OFF HAND-AUTO
	Stand AGA5801SY		ASN311	HAND-AUTO
	Wall Mount AGAM5801Y		(Note) AM ammeter	Without nameplate
	Stand AGAM5801SY		APN128R ABN111 ABN111	Without nameplate ON OFF
6 × 2 holes	Wall Mount AGA6801Y		APN128R ABN111 ABN111 APN128R ABN111 ABN111	Without nameplate ON OFF Without nameplate ON OFF
	Stand AGA6801SY		ABN111 ABN111	ON OFF
	Wall Mount AGAM6801Y		(Note) AM ammeter	Without nameplate
	Stand AGAM6801SY		APN128R APN128G ABN111 ABN111 ABN111	Without nameplate Without nameplate ON OFF
6 × 3 holes	Wall Mount AGA6901Y		APN128R ABN111 ABN111 APN128R ABN111 ABN111	Without nameplate ON OFF Without nameplate ON OFF
	Stand AGA6901SY		ABN111 ABN111	ON OFF
	Wall Mount AGAM6901Y		(Note) AM ammeter	Without nameplate
	Stand AGAM6901SY		APN128R APN128G ABN111 ABN111 ABN111	Without nameplate Without nameplate ON OFF

Empty Enclosures

Package Quantity: 1

Style	4 holes		5 holes			6 holes			
Type No. (Ordering Type No.)	AGA481Y	AGA482Y	AGA580Y	AGA581Y	AGA582Y	AGA681Y	AGA682Y	AGA690Y	AGA691Y
Appearance									
Weight (Approx.)	2.6 kg					6.8 kg			
Control Unit Mounting Holes	• Effective Depth inside the Enclosure (4 or 5 × 2 holes)					(6 × 2 or 3 holes)			
	(Meter Mounting Hole)		Front			Front			
						All dimension in mm			

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 stand type enclosures are also available. See page 1300 for more details.

AGA Series Control Stations (Multiple Column)

• Other Types

Package Quantity: 1

Style					4 or 5 × 2 holes				
					AGA4801KY	AGAM4801KY	-	AGA5801KY	AGAM5801KY
Type No. (Ordering Type No.)	X	X	X		AGA4801KSY	AGAM4801KSY	-	AGA5801KSY	AGAM5801KSY
	X		X	X	AGA481KY	AGA482KY	AGA580KY	AGA581KY	AGA582KY
		X	X		AGA481SY	AGA482SY	AGA580SY	AGA581SY	AGA582SY
				X	AGA481KSY	AGA482KSY	AGA580KSY	AGA581KSY	AGA582KSY
			X	X					
Appearance									
Weight (Approx.)	With control units and a shade				5.0 kg	6.7 kg	-	5.3 kg	7.0 kg
	With control units, stand type 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
	Stand type				8.0 kg	8.0 kg	8.0 kg	8.0 kg	8.0 kg
	Stand type with a shade				8.4 kg	8.4 kg	8.4 kg	8.4 kg	8.4 kg

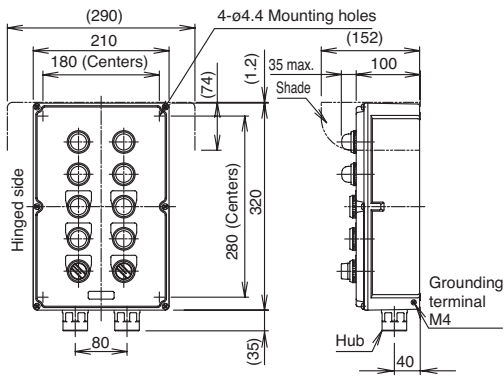
Style					6 × 2 or 3 holes				
					AGA6801KY	AGAM6801KY	-	AGA6901KY	AGAM6901KY
Type No. (Ordering Type No.)	X	X	X		AGA6801KSY	AGAM6801KSY	-	AGA6901KSY	AGAM6901KSY
	X		X	X	AGA681KY	AGA682KY	AGA690KY	AGA691KY	-
		X	X		AGA681SY	AGA682SY	AGA690SY	AGA691SY	-
				X	AGA681KSY	AGA682KSY	AGA690KSY	AGA691KSY	-
			X	X					
Appearance									
Weight (Approx.)	With control units and a shade				11.3 kg	13.0 kg	-	11.3 kg	13.8 kg
	With control units, stand type 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	-
	Stand type				13.0 kg	13.0 kg	13.0 kg	13.0 kg	-
	Stand type with a shade				13.7 kg	13.7 kg	13.7 kg	13.7 kg	-

- For more details about enclosures without control units, see page 1299.
- For more detail about control units mounted on control stations, see page 1299.

AGA Series Control Stations (Multiple Column)

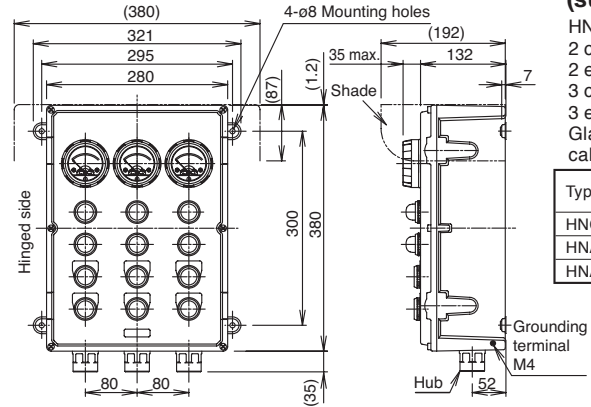
Dimensions

• AGA480/AGA580 (Wall Mount Type)



Weight: Approx. 4.8 kg

• AGA680/AGA690 (Wall Mount Type)



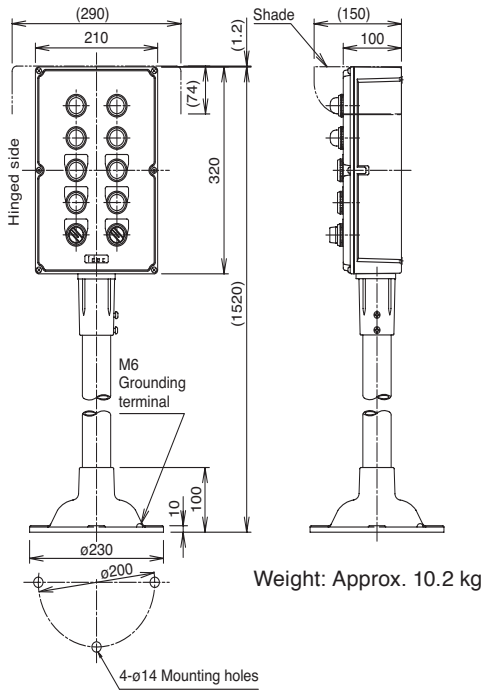
Weight: Approx. 10.5 kg

• Entrance Hub (supplied)

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

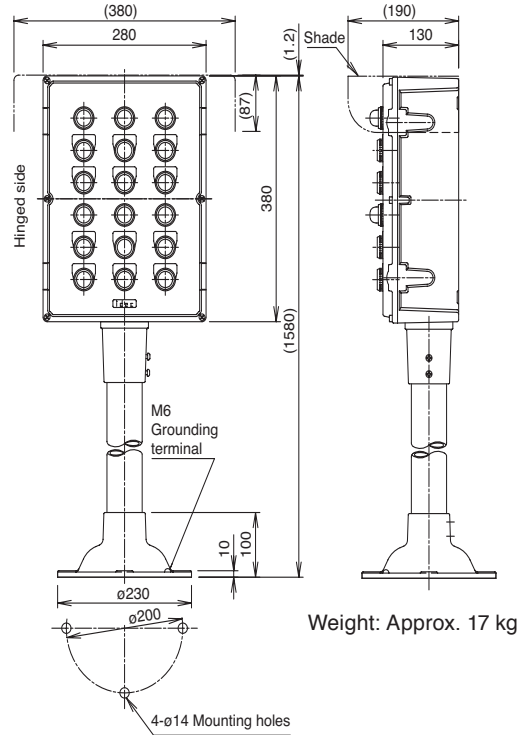
Type No.	Applicable Cable Diameter (R)
HNG31	8, 10, 12
HNAG32	13, 15, 17
HNAG33	18, 20, 22

• AGA480/AGA580 (Stand Type)



Weight: Approx. 10.2 kg

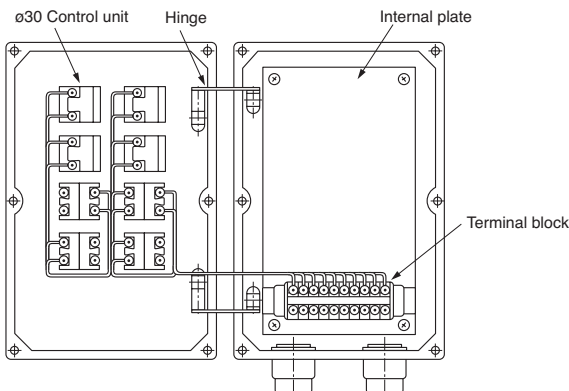
• AGA680/AGA690 (Stand Type)



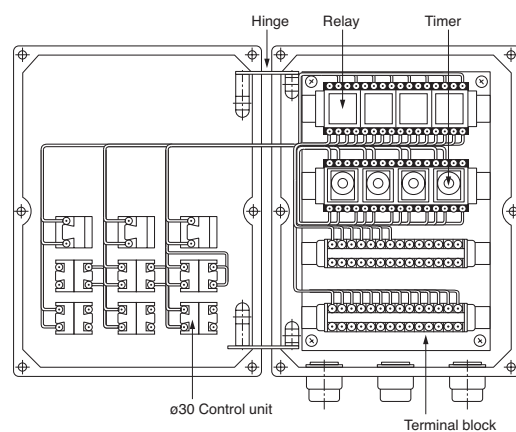
Weight: Approx. 17 kg

Application Examples of Control Stations

• AGA580 Control Station



• AGA690 Control Station

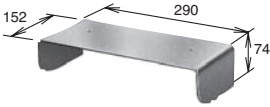
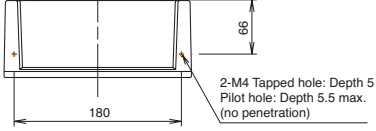

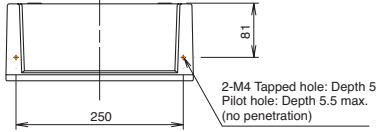
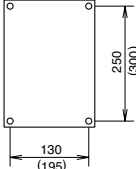

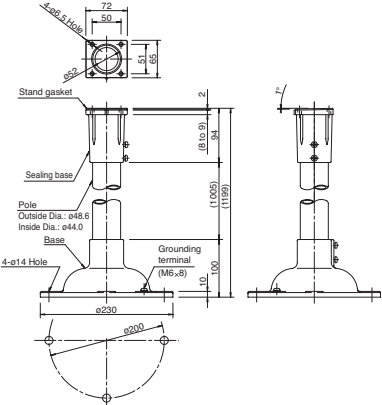

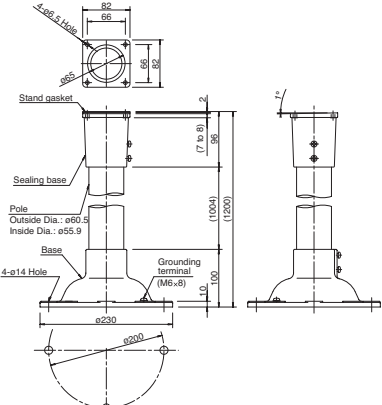


Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

AGA Series Control Stations (Multiple Column)

Accessory (Options)

Package Quantity: 1

Name & Shape	Type No. (Ordering Type No.)	Description & Dimensions
<p>Enclosure Shade</p>  <p>For AGA480/AGA580 Material: SPCC 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 control units against direct sunlight and falling objects. • Color: 5Y7/1 (semi-gloss) • Shade mounting hole  <p>2-M4 Tapped hole: Depth 5 Pilot hole: Depth 5.5 max. (no penetration)</p>
<p>Enclosure Shade</p>  <p>For AGA680/AGA690 Material: SPCC 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 control units against direct sunlight and falling objects. • Color: 5Y7/1 (semi-gloss) • Shade mounting hole  <p>2-M4 Tapped hole: Depth 5 Pilot hole: Depth 5.5 max. (no penetration)</p>
<p>Internal Plate</p>  <p>Dimensions in () for AGA690 control box</p> <p>Material: SPCC (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> <hr/> <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 stand part. • Color: 5Y7/1 (semi-gloss) <p>AGZ-S205</p>  <p>Stand gasket Sealing base Pole Outside Dia.: $\phi 48.6$ Inside Dia.: $\phi 44.0$ Base 4-$\phi 14$ Hole Grounding terminal (M6\times8)</p>
<p>Stand Pole</p>  <p>Weight: Approx. 6.5 kg</p>	<p>AGZ-S206 (For AGA680/AGA690)</p>	<p>AGZ-S206</p>  <p>Stand gasket Sealing base Pole Outside Dia.: $\phi 60.5$ Inside Dia.: $\phi 55.9$ Base 4-$\phi 14$ Hole Grounding terminal (M6\times8)</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.

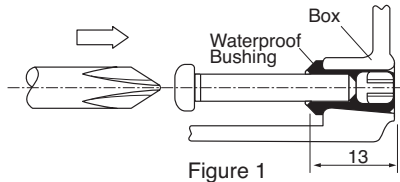


Figure 1

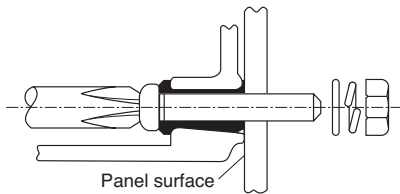


Figure 2

Ordering Information

• When ordering control stations with control units (standard):

Specify the Ordering Type No. of the control station.

• When ordering enclosures without control units:

Specify the following items.

1. Ordering Type No. of the enclosure
2. Ordering Type No. and specifications of the control units 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 Ordering Type No. and the cable outside diameter. (R).
5. Other specifications

Ordering Example

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩	Type No. of Enclosure	AGA581Y	
	Control Unit and Nameplate	①②	APN128R
		③④	APN128G
		⑤⑥	ABN210B, with NA-1
		⑦⑧	ABN201R, with NA-2
⑨⑩	ASN311, with NA-32		
Lead-in Fitting	①	HNAG33 R18	

Note: Any $\phi 30$ mm series control units are selectable. Take into consideration the degree of protection of the control unit and the effective depth of the enclosure.

Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

AGS Series Control Stations

IP65 Waterproof Stainless Steel Control Stations

High Corrosion and Weather Resistant

The AGS series control stations are designed for mounting various types of control units in various combinations. Standard control stations are available with predetermined specifications of cable lead-in holes and control units mounted (contact configurations, voltage, button colors, and nameplates).

- Wide variety of combinations of control units are possible. Select from a wide variety of ø30 series control units.
- Buff finish available upon request.



Specifications

Degree of Protection (Note 1)	IP65 (IEC 60529, JEM1030) Key selector switch: Splash-proof IP54
Material (Box)	SUS304 (thickness 1 mm)
Coating Color (Melamine coating)	Yellow semi-gloss (Munsell 5Y7/1) 1 column type: Outside only 2 or 3 column type: Both inside and outside
Rated Insulation Voltage	600V
Insulation Resistance	5 MΩ minimum (500V DC megger)
Dielectric Strength (Note 2)	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)
Enclosure Style	1 to 5 holes × 1 column, 3 to 5 holes × 2 or 3 columns Wall mount/Stand Types
Cable Lead-in (Wall Mount Type)	Reducer bushing (Gland hub also available) G1 (28 mm) 1 to 3 holes × 1 column: G3/4 (22 mm)
Applicable Control Units	IDEC ø30 mm series control units, AM ammeter (except enclosed type units)

Note 1: Degree of protection depends on the control units mounted on the enclosure. When IP65 control units are mounted, the entire control station has IP65 characteristics. (See page 1280)

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

• Control Unit Mounting Holes

The holes for mounting control units are 30.5 mm in diameter with an anti-rotation notch. Mounting centers are 50 mm.

• Lead-in Fittings (Wall Mount Type)

A reducer bushing made of brass is supplied for connecting a steel conduit to lead in cables.

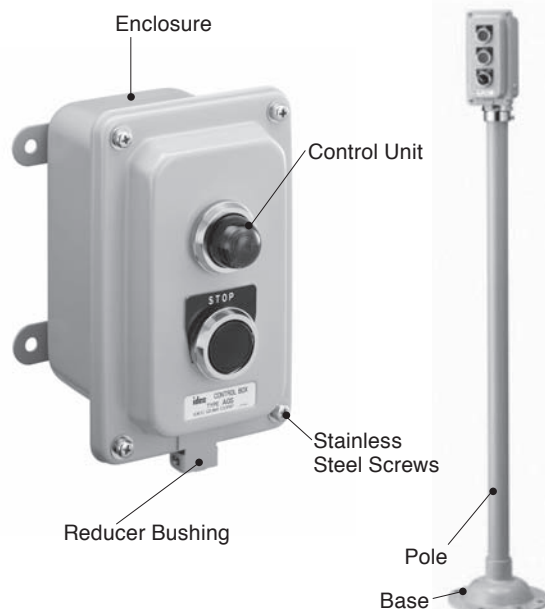
- 1 column × 1 to 3 holes: With one G3/4 for 22 mm conduit
- 1 column × 4 or 5 holes: With one G1 for 28 mm conduit
- 2 columns × 2 or 3 holes: With two G3/4 for 22 mm conduit
- 2 columns × 4 or 5 holes: With two G1 for 28 mm conduit
- 3 columns × 2 or 3 holes: With three G3/4 for 22 mm conduit
- 3 columns × 4 or 5 holes: With three G1 for 28 mm conduit

Note: Mounting other than standard (e.g. one bushing for 2 column type, one or two bushings for 3 column type) is not available. In this case, a plug is supplied.

HNG type gland hubs for lead in cables are also available.

• Stand Pole (Stand Type)

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



Control Stations with Control Units

The standard control stations are available with selected combinations of control units as listed below. For the dimensions and mounting centers, see the figures on page 1307.

• Control Units Mounted on Standard Control Stations

Control Unit	Type No.	Specifications
Pushbutton 	ABN110 *	Flush, 1NO
	ABN101 *	Flush, 1NC
	ABN111 *	Flush, 1NO-1NC
	ABN311R	ø40 mushroom, 1NO-1NC
	ATN420	Toggle lever, 2NO
Pilot Light (Incandescent)	APN118 *	Dome, 110V AC (2W)
	APN128 *	Dome, 220V AC (2W)
Selector Switch 	ASN311	Knob, 2-position, 1NO-1NC
	ASN111	Knob, 3-position, 1NO-1NC
	ASN3K11	Key, 2-position, 1NO-1NC
Meter 	AM ammeter (See page 1923)	Specify capacity (Type No.) Coating color of the meter bezel: N1.5 (polish)

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.

Type List

• 1-column Type

Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall Mount / 1 hole	AGS1101M		ABN110	ON
	AGS1102M		ABN311R	OFF
	AGS1103M		APN118R	Without nameplate
	AGS1105M		ASN311	HAND-AUTO
	AGS1106M		ASN111	HAND-OFF-AUTO
	AGS1107M *		ASN3K11	OFF-ON
	AGS1108M		ATN420	Without nameplate ON-OFF on bezel
	AGS1111M		HN1E-BV411R	EMERGENCY STOP
Stand / 1 hole	AGS1101SM		ABN110	ON
	AGS1102SM		ABN311R	OFF
	AGS1111SM		HN1E-BV411R	EMERGENCY STOP
Wall Mount / 2 holes	AGS2101M		ABN110 ABN101	ON OFF
	AGS2102M		ABN111 ABN111	ON OFF
	AGS2103M		APN118R APN118G	Without nameplate
	AGS2104M		APN128R APN128G	Without nameplate

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

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall Mount / 2 holes	AGS2105M		APN118R ABN111	Without nameplate STOP
	AGS2106M		APN128R ABN111	Without nameplate STOP
	AGS2107M		APN118R ASN311	Without nameplate HAND-AUTO
	AGS2108M		APN128R ASN311	Without nameplate HAND-AUTO
	AGS2110M *		APN128R ASN3K11	Without nameplate OFF-ON
	AGS2113M		ABN110 ABN311R	ON OFF
	AGS2115M		APN128R ATN420	Without nameplate ON-OFF on bezel
	Stand / 2 holes	AGS2101SM		ABN110 ABN101
AGS2107SM			APN118R ASN311	Without nameplate HAND-AUTO
Wall Mount / 3 holes	AGS3102M		APN118R ABN110 ABN101	Without nameplate ON OFF
	AGS3103M		APN128R ABN110 ABN101	Without nameplate ON OFF
	AGS3104M		ABN111 ABN111 ASN311	ON OFF HAND-AUTO
	AGS3105M		APN118W APN118R APN118G	Without nameplate
	AGS3106M		APN128W APN128R APN128G	Without nameplate
	Stand / 3 holes	AGS3102SM		APN118R ABN110 ABN101
AGS3104SM			ABN111 ABN111 ASN311	ON OFF HAND-AUTO

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

Flush Silhouette
Control Units
Display Lights
Display Units
Safety Products
Terminal Blocks
Comm Terminals
AS-Interface
Relays & Timers
Sockets
Circuit Protectors
Power Supplies
PLCs & SmartRelay
Operator Interfaces
Sensors
Control Stations
Explosion Protection
References

AGS Series Control Stations

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall • Stand / 4 holes	Wall Mount AGS4101		APN128R	Without nameplate
	Stand AGS4101S		APN128G ABN111 ABN111	Without nameplate ON OFF
	Wall Mount AGSM4101		(Note) AM ammeter	Without nameplate
	Stand AGSM4101S		ABN111 ABN111	ON OFF
	Wall Mount AGS4102		APN128R ABN111 ABN111 ASN311	Without nameplate ON OFF HAND-AUTO
	Stand AGS4102S			
Wall • Stand / 5 holes	Wall Mount AGS5101		APN128R APN128G ABN111 ABN111 ASN311	Without nameplate Without nameplate ON OFF HAND-AUTO
	Stand AGS5101S			
	Wall Mount AGSM5101		(Note) AM ammeter	Without nameplate
	Stand AGSM5101S		APN128R ABN111 ABN111	Without nameplate ON OFF

Note: Specify the Type No. of the meter to select a required capacity.

• 2-column Type Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall • Stand / 3 holes	Wall Mount AGS3801		ABN111	ON
	Stand AGS3801S		ABN111 ASN311	OFF HAND-AUTO
	Wall Mount AGS3802		APN128R ABN111 ABN111	Without nameplate ON OFF
	Stand AGS3802S			
Wall • Stand / 4 holes	Wall Mount AGS4801		APN128R APN128G ABN111 ABN111	Without nameplate Without nameplate ON OFF
	Stand AGS4801S			
Wall • Stand / 5 holes	Wall Mount AGS5801		APN128R APN128G ABN111 ABN111 ASN311	Without nameplate Without nameplate ON OFF HAND-AUTO
	Stand AGS5801S			
	Wall Mount AGSM5801		(Note) AM ammeter	Without nameplate
			APN128R ABN111 ABN111	Without nameplate ON OFF

Note: Specify the Type No. of the meter to select a required capacity.

• 3-column Type Package Quantity: 1

Control Station		Mounted Control Units		
Style	Type No. (Ordering Type No.)	Symbol	Type No.	NA Nameplate Legend
Wall • Stand / 3 holes	Wall Mount AGS3901		ABN111	ON
	Stand AGS3901S		ABN111 ASN311	OFF HAND-AUTO
	Wall Mount AGS3902		APN128R ABN111 ABN111	Without nameplate ON OFF
	Stand AGS3902S			
Wall • Stand / 4 holes	Wall Mount AGS4901		APN128R APN128G ABN111 ABN111	Without nameplate Without nameplate ON OFF
	Stand AGS4901S			
Wall • Stand / 5 holes	Wall Mount AGS5901		APN128R APN128G ABN111 ABN111 ASN311	Without nameplate Without nameplate ON OFF HAND-AUTO
	Stand AGS5901S			
	Wall Mount AGSM5901		(Note) AM ammeter	Without nameplate
	Stand AGSM5901S		APN128R ABN111 ABN111	Without nameplate ON OFF

Note: Specify the Type No. of the meter to select a required capacity.

Ordering Information

• **When ordering control stations with control units:**
Specify the Ordering Type No. of the control station.

- **When ordering enclosures without control units, specify the following items.**
- Ordering Type No. of the enclosure
 - Ordering Type No. and specifications of the control units to be mounted (lens color, button color, etc.)
 - Nameplate
 - Lead-in fitting
Only when ordering the gland hub for leading in cables, specify Type No. and the cable outside diameter (R).
 - Other specifications

Ordering Example

①	②
③	④
⑤	⑥
⑦	⑧
⑨	⑩

Type No. of Enclosure	AGS
①②	APN128R
③④	APN126G
⑤⑥	ABN210B, with NA-1
⑦⑧	ABN201R, with NA-2
⑨⑩	ASN311, with NA-32

Note: Any ø30 mm series control units are selectable. Take into consideration the degree of protection of the control unit and the effective depth of the enclosure.

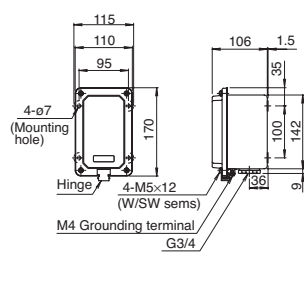
Empty Enclosures

Package Quantity: 1

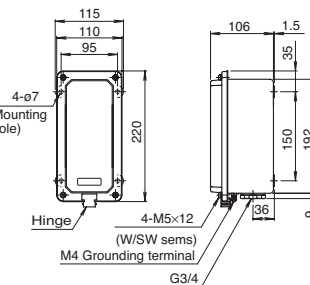
Style		1 column × 1 or 2 holes			1 column × 3 holes		1 column × 4 or 5 holes		
Type No. (Ordering Type No.)	Coating Buffing	AGS210M AGS210M-BUFF	AGS211M AGS211M-BUFF	AGS212M AGS212M-BUFF	AGS310M AGS310M-BUFF	AGS311M AGS311M-BUFF	AGS411 AGS411-BUFF	AGS510 AGS510-BUFF	AGS511 AGS511-BUFF
Appearance									
Weight (Approx.)		1.2 kg			1.6 kg		2.4 kg		
Style		2 columns × 3 holes			2 columns × 5 holes		3 columns × 3 holes		3 columns × 5 holes
Type No. (Ordering Type No.)	Coated Buff	AGS380 AGS380-BUFF	AGS381 AGS381-BUFF	AGS580 AGS580-BUFF	AGS581 AGS581-BUFF	AGS390 AGS390-BUFF	AGS391 AGS391-BUFF	AGS590 AGS590-BUFF	AGS591 AGS591-BUFF
Appearance									
Weight (Approx.)		3.8 kg			4.6 kg		4.8 kg		6.5 kg
<ul style="list-style-type: none"> Control Unit Mounting Holes 		<ul style="list-style-type: none"> Effective Depth inside the Enclosure (From the lid surface to the inside bottom) * AGS210, 310: 104 * AGS210M, 310M: 104 * AGS510: 105 				(1-column Type)		(2- or 3-column Type)	

Dimensions

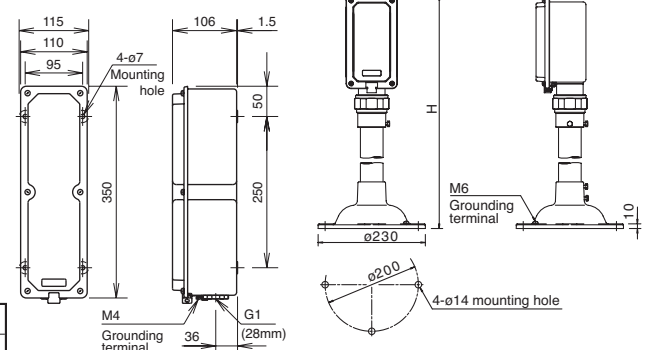
• 1- or 2-hole × 1 column



• 3-hole × 1 column

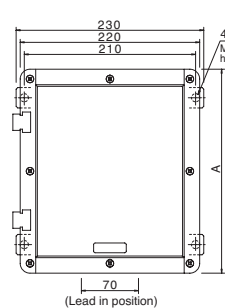


• 4- or 5-hole × 1 column

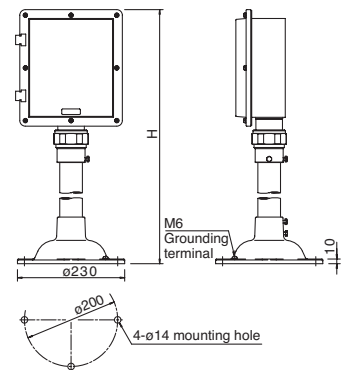
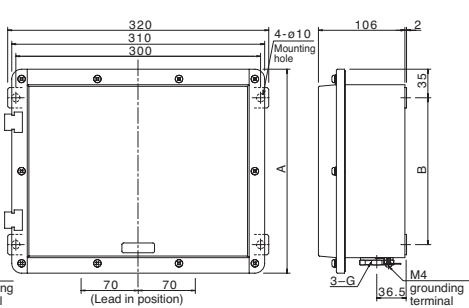


		1 hole	2 holes	3 holes	4 holes
H			1320	1370	1500
Weight (Approx.)	Wall Mount		1.2 kg	1.6 kg	2.4 kg
	Stand		6.8 kg	7.2 kg	8.0 kg

• 2-, 3-, 4- or 5-hole × 2 columns



• 2-, 3-, 4- or 5-hole × 3 columns



		2-column Type				3-column Type			
		2 holes	3 holes	4 holes	5 holes	2 holes	3 holes	4 holes	5 holes
A			250		350		50		350
B			180		280		180		280
H			1400		1500		1400		1500
G			3/4 (22 mm)		1 (28 mm)		3/4 (22 mm)		1 (28 mm)
Weight (Approx.)	Wall Mount		3.8 kg		4.6 kg		4.8 kg		6.5 kg
	Stand		9.3 kg		10.4 kg		10.6 kg		12.2 kg

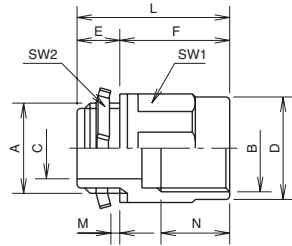
All dimensions in mm

Control Station Accessories

Lead-in Fittings

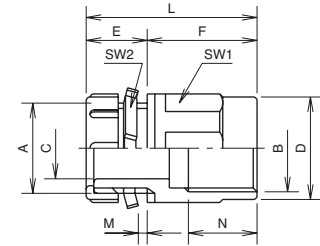
• Entrance Hub (For Connecting Conduit)

HNA



Made of aluminum (supplied with a locking nut)

HN



Made of iron (supplied with a locking nut and a bushing)

Package Quantity: 1

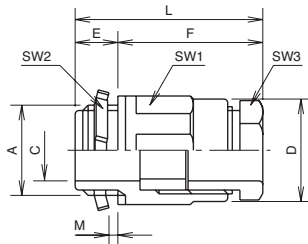
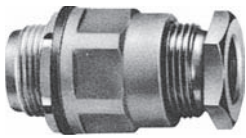
Material	Type No. (Ordering Type No.)	Applicable Conduit	Thread Size		Outside Dimensions								
			A (male)	B (female)	C	D	E	F	L	M	N	SW1	SW2
Aluminum	HNA22	22 mm	G3/4	G3/4	18	32	15	31	46	7	18	32	33
	HNA33	28 mm	G1	G1	23	38	16	35	51	7	23	38	41
Iron	HN21	16 mm	G3/4	G1/2	13	26	23	27	50	9	21	26	33
	HN22	22 mm	G3/4	G3/4	18	32	23	36	59	9	22	32	33
	HN31	16 mm	G1	G1/2	13	26	23	23	46	6	21	26	41
	HN32	22 mm	G1	G3/4	18	32	23	30	53	6	22	32	41
	HN33	28 mm	G1	G1	23	38	23	41	64	6	25	38	41

Note: Standard coating color: Yellow semi-gloss (melamine coating)

SW1: Hub size across flats
SW2: Locking nut size across flats

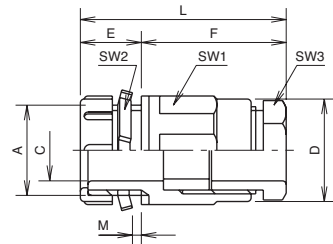
• Gland Hub (For Lead in Cable)

HNAG



Made of aluminum (supplied with a locking nut)

HNG



Made of iron (supplied with a locking nut and a bushing)

Package Quantity: 1

Material	Type No. (Ordering Type No.)	Applicable Cable Diameter (R)	Thread Size	Outside Dimensions (mm)								
				A	C	D	E	F	L	M	SW1	SW2
Die-cast aluminum	HNAG22R *	13, 15, 17	G3/4	18	32	15	47	62	7	32	33	29
	HNAG33R *	18, 20, 22	G1	23	38	16	53	69	7	38	41	35
Cast iron	HNG21R *	8, 10, 12	G3/4	13	26	23	39	62	9	26	33	23
	HNG22R *	13, 15, 17	G3/4	18	32	23	48	71	9	32	33	29
	HNG31R *	8, 10, 12	G1	13	26	23	35	58	6	26	41	23
	HNG32R *	13, 15, 17	G1	18	32	23	42	65	6	32	41	29
	HNG33R *	18, 20, 22	G1	23	38	23	54	77	6	38	41	35

Note 1: Specify an applicable cable diameter code in place of *.

Note 2: Standard coating color: Yellow semi-gloss (melamine coating)

Note 3: Material of gland: Brass (nickel-plated surface)

Note 4: When ordering, specify the Ordering Type No.

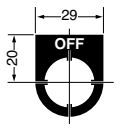
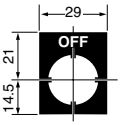
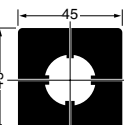
For example, when ordering the HNG21 with an applicable cable diameter of $\phi 10$, specify HNG21R10.

SW1: Hub size across flats
SW2: Locking nut size across flats
SW3: Gland size across flats

Nameplates

• KGN/AGAW (For ø 22 TW Series Control Units)

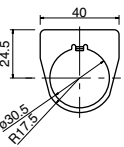
When ordering, specify the Ordering Type No.

Name & Shape	Legend	Specifications	Type No.	Ordering Type No.	Package Quantity	Description
	Without	Aluminum Thickness 0.8 mm	NWA-0	NWA-0	1	• Black background
				NWA-0PN10	10	
	With		NWA-*	NWA-*	1	• White letters on black background
				NWA-*PN10	10	
	Without	Aluminum Thickness 0.8 mm	NWAQ-0	NWAQ-0	1	• Black background
				NWAQ-0PN10	10	
	With		NWAQ-*	NWAQ-*	1	• White letters on black background
				NWAQ-*PN10	10	
	Without	Aluminum Thickness 0.8 mm	NWA-0	NWA-0	1	• Black background
				NWA-0PN10	10	

• Specify a legend code in place of * in the Ordering Type No.

• KGN/AGA/AGS (For ø30 Series Control Units)

When ordering, specify the Ordering Type No.

Name & Shape	Legend	Specifications	Type No.	Ordering Type No.	Package Quantity	Description
	Without	Aluminum Thickness 1.2 mm	NA-0	NA-0	1	• Black background • White letters on black background
				NA-0PN10	10	
	With		NA-*	NA-*	1	
				NA-*PN10	10	

• Specify a legend code in place of * in the Ordering Type No.

• Legend on Nameplate

Code	Legend
1	ON
2	OFF
3	START
4	STOP
31	OFF-ON
35	HAND-AUTO
53	HAND-OFF-AUTO

• Material of Nameplates for Control Units

In addition to the nameplates made of aluminum, nameplates made of plastic are also available.

• Nameplates for Various Uses

In addition to the nameplates for control units, nameplates for various uses made of plastic or stainless steel are also available.

Flush Silhouette

Control Units

Display Lights

Display Units

Safety Products

Terminal Blocks

Comm Terminals

AS-Interface

Relays & Timers

Sockets

Circuit Protectors

Power Supplies

PLCs & SmartRelay

Operator Interfaces

Sensors

Control Stations

Explosion Protection

References

