

Unicode™ 2 Series Pre-Drilled Control Stations

Increased Safety

Polyamide, Fiberglass Reinforced Polyester, 316L Stainless Steel, Aluminum

NEC:

Class I, Division 2, Groups A, B, C, D
Class II, Groups E, F, G
Class III
Ex de IIC/DIP A21
IP66, Type 4X^⓪

CEC:

Class I, Division 2, Groups A, B, C, D
Class II, Groups F, G
Class III; Type 4X^⓪
Class I, Zone 1, AEx de IIC/ AEx tD 21
IP66

ATEX/IECEx:

Zone 1 and 2 – 21 and 22
Ⓢ II 2 GD
Ex de IIC/Ex demb IIC/ Ex tD A21
IP66 – IK10

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- For use in washdown areas.

Features

- Enclosures are rated for IP66 with firmly secured gasket.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Polyamide
 - Body, cover, cable gland and blanking plug: polyamide, black finish
- Polyester
 - Body and cover: fiberglass reinforced polyester, black finish.
- Stainless Steel
 - Body, cover and cover screws: 316L stainless steel, natural finish
- Aluminum
 - Body and cover: aluminum with gray epoxy powder coating.
- Cable gland and blanking plug: polyamide
- Cover screws for 316L stainless steel or aluminum body: 304 stainless steel
- Cover screws for fiberglass reinforced polyester body: 316 stainless steel
- Nameplate: white self-adhesive laminated plastic

NEC/CEC Certifications and Compliances

- Fiberglass Reinforced Polyester (FRP)
 - Certification Type CSPe
 - Temperature Class: T5 or T6
 - Ambient Temperature: -55°C to +60°C (-67°F to +140°F)
 - CAN/CSA Standards: C22.2 No. 0-M91, No. 25-M66, No. 213-M1987, No. 94-M91, No. 60079-0:07, No. 60529-2005, E60079-7-2003
 - UL Standards: 60079-0, 60079-7, 50
 - Other Standards: ANSI/IEC 60529-2004, ANSI/ISA 12.12.01-2011
 - cCSAus Certificate: 2356952
- Stainless Steel
 - Certification Type JBe
 - Temperature Class: T6 (at +40°C) or T5 (at +55°C)
 - Surface Temperature: T80 °C (at +40°C) to T95 °C (at +55°C) (T176 °F to T203 °F)
 - Ambient Temperature: -40 °C to +55 °C (-40 °F to +131°F)
 - CAN/CSA Standard: C22.2 No. 0-M91, No. 25-M66, No. 213-M1987, No. 60079-0:07, No. 60529-2005, E60079-7-2003
 - UL Standard: 60079-0, 60079-7
 - Other Standards: ANSI/IEC60529-2004, ANSI/ISA 12.12.01-2011
 - cCSAus Certificate: 2356734



Polyamide U43W211



Polyester U23W211



Stainless Steel U62W229



Aluminum U83W211

ATEX/IECEx Certifications and Compliances

- Polyamide
 - Certification Type PCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: Ⓢ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T167 °C to T75 °C (T333 °F to T167 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - CE Declaration of Conformity: 50221
 - ATEX Certificate: LCIE 00 ATEX 6047
 - IEC Certificate: LCIE Ex 00.017
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

^⓪ Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

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IP66

ATEX/IECEX:

Zone 1 and 2 – 21 and 22
⊕ II 2 GD
Ex de IIC/Ex demb IIC/ Ex tD A21
IP66 – IK10

CONTROLS: NEC/CEC, ATEX/IECEX INCREASED SAFETY CONTROL STATIONS

- Fiberglass Reinforced Polyester (FRP)
 - Certification Type CSPe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C (T167 °F)
 - Ambient Temperature: -55 °C to +70 °C (-67 °F to +158 °F)
 - CE Declaration of Conformity: 52084
 - ATEX Certificate: LCIE 00 ATEX 3032X
 - IECEX Certificate: IECEX LCI 09.0016X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Stainless Steel
 - Certification Type JBe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature Class: T5 to T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T80 °C to T95 °C (T176 °F to T203 °F)
 - Ambient Temperature: -50 °C to +70 °C (-58 °F to +158 °F)
 - CE Declaration of Conformity: 50232
 - ATEX Certificate: LCIE 02 ATEX 6118X
 - IECEX Certificate: LCI 11.0008X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10
- Aluminum
 - Certification Type PCe
 - Gas: Zone 1 and 2
 - Conforming to ATEX 94/9/CE: ⊕ II 2 G
 - Type of Protection: Ex de IIC or Ex demb IIC
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 94/9/CE: ⊕ II 2 D
 - Type of Protection: Ex tD A21
 - Surface Temperature: T75 °C (T167 °F)
 - CE Declaration of Conformity: 50221
 - ATEX Certificate: LCIE 02 ATEX 6047
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK10

Other Certification ^②

- Certification Type PCe (Polyamide)
 - INMETRO Certificate: BVC 11.0640-X
- Certification Type CSPe (Polyester)
 - INMETRO Certificate: BVC 11.0637-X
- Certification Type JBe (Stainless Steel)
 - INMETRO Certificate: BVC 11.0418-X

EURASEC Certification

- Certification Type PCe (Polyamide)
 - EURASEC RU C-FR Г505.В.00911
- Certification Type CSPe (Polyester)
 - EURASEC RU C-FR Г505.В.00911
- Certification Type JBe (Stainless Steel)
 - EURASEC RU C-FR Г505.В.00911

^① Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

^② INMETRO certification available on special request only. Contact your local sales representative for more information.

Unicode™ 2 Series Pre-Drilled Polyester Control Stations

Increased Safety

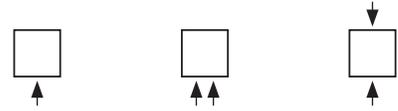
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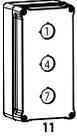
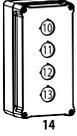
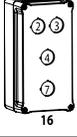
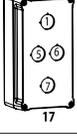
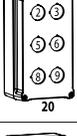
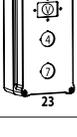
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ATEX/IECEX:
 Zone 1 and 2 – 21 and 22
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 IP66 – IK10

Polyester Pre-Drilled Boxes for Control Stations

Included: 1 white self-adhesive laminated plastic nameplate (black lettering), 1 earth continuity brass plate, threaded entries.



Description/ Function	Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number			
				1 Bottom	2 Bottom	Feed-Thru	
Size 3 Pre-Drilled Enclosures — 230 mm x 120 mm x 91 mm (9.06" x 4.72" x 3.58")							
 11	M20			U23W111	U23W211	U23U111	
	For 3 actuators 1 vertical rail	M25	1.1 (2.43)	4.2 (256.30)	U23W311	U23W411	U23U311
	3/4"				U23Z311	U23Z411	U23X311
 14	M20			U23W114	U23W214	U23U114	
	For 4 actuators 1 vertical rail	M25	1.1 (2.43)	4.2 (256.30)	U23W314	U23W414	U23U314
	3/4"				U23Z314	U23Z414	U23X314
 16	M20			U23W116	U23W216	U23U116	
	For 4 actuators 3 horizontal rails	M25	1.1 (2.43)	4.2 (256.30)	U23W316	U23W416	U23U316
	3/4"				U23Z316	U23Z416	U23X316
 17	M20			U23W117	U23W217	U23U117	
	For 4 actuators 3 horizontal rails	M25	1.1 (2.43)	4.2 (256.30)	U23W317	U23W417	U23U317
	3/4"				U23Z317	U23Z417	U23X317
 18	M20			U23W118	U23W218	U23U118	
	For 5 actuators 3 horizontal rails	M25	1.1 (2.43)	4.2 (256.30)	U23W318	U23W418	U23U318
	3/4"				U23Z318	U23Z418	U23X318
 20	M20			U23W120	U23W220	U23U120	
	For 6 actuators 3 horizontal rails	M25	1.1 (2.43)	4.2 (256.30)	U23W320	U23W420	U23U320
	3/4"				U23Z320	U23Z420	U23X320
 23	M20			U23W123	U23W223	U23U123	
	For 1 ammeter 48x48 + 2 actuators 1 vertical rail	M25	1.1 (2.43)	4.2 (256.30)	U23W323	U23W423	U23U323
	3/4"				U23Z323	U23Z423	U23X323
 24	M20			U23W124	U23W224	U23U124	
	For 1 ammeter 48x48 + 3 actuators 1 vertical rail (V) 2 horizontal rails (5-6-7)	M25	11.1 (2.43)	4.2 (256.30)	U23W324	U23W424	U23U324
	3/4"				U23Z324	U23Z424	U23X324

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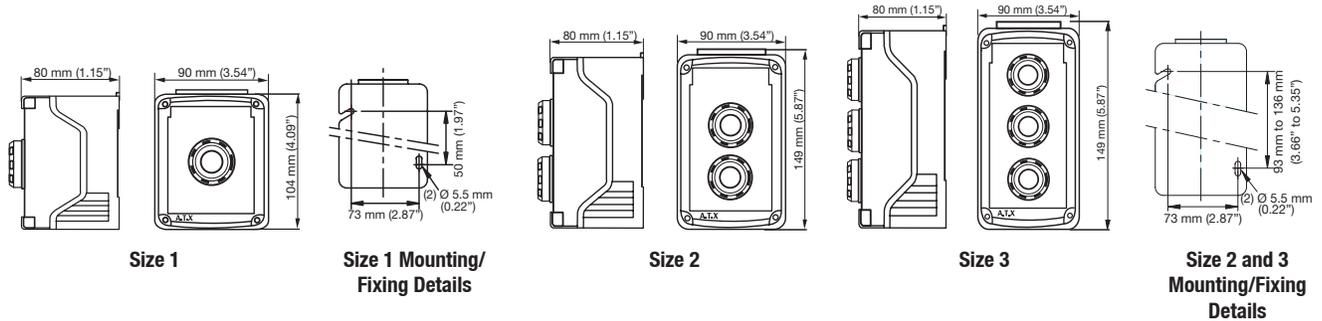
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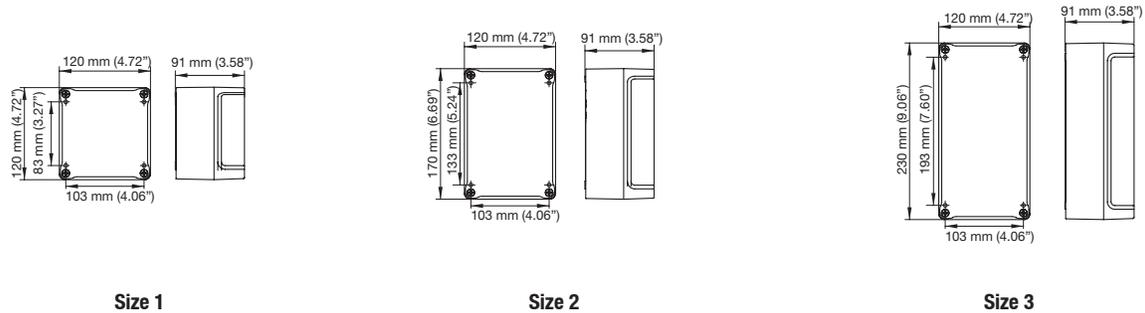
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 IP66 – IK10

Dimensions in Millimeters (Inches)

Polyamide

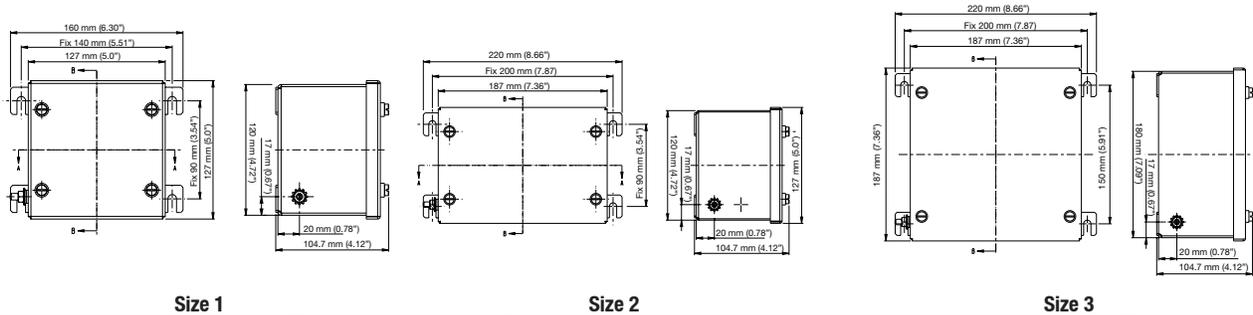


Fiberglass Reinforced Polyester

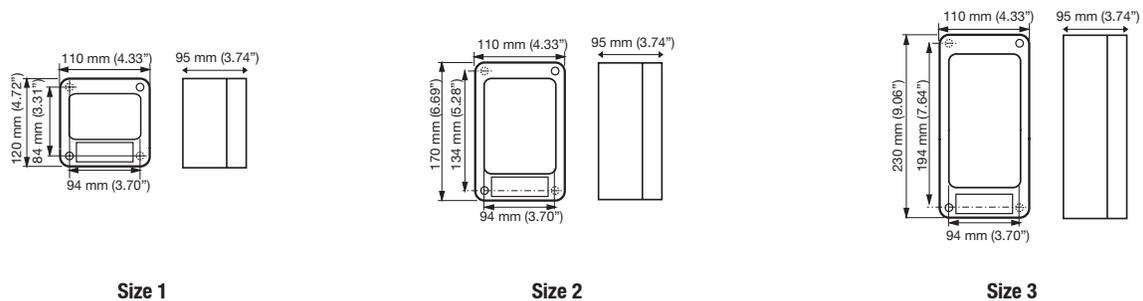


Mounting/Fixing Details for Above Boxes: Four Holes Ø 5 mm (0.20")

316L Stainless Steel



Aluminum



Mounting/Fixing Details for above Boxes: Two Holes Ø 5 mm (0.20")

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CONTROLS: NEC/CEC, ATEX/IECEX INCREASED SAFETY CONTROL STATIONS

