

# 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<sup>Ⓛ</sup>

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Groups F, G  
Class III; Type 4X<sup>Ⓛ</sup>  
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

<sup>Ⓛ</sup> Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

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IP66, Type 4X<sup>①</sup>

### CEC:

Class I, Division 2, Groups A, B, C, D  
Class II, Groups F, G  
Class III; Type 4X<sup>①</sup>  
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

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 <sup>②</sup>

- 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

<sup>①</sup> Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

<sup>②</sup> 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

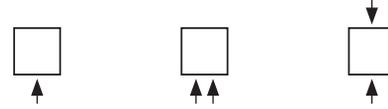
**NEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Groups E, F, G  
 Class III  
 Ex de IIC/DIP A21  
 IP66, Type 4X<sup>①</sup>

**CEC:**  
 Class I, Division 2, Groups A, B, C, D  
 Class II, Groups F, G  
 Class III; Type 4X<sup>①</sup>  
 Class I, Zone 1, AEx de IIC/ AEx tD 21  
 IP66

**ATEX/IECEX:**  
 Zone 1 and 2 – 21 and 22  
 II 2 GD  
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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 <sup>3</sup> (in <sup>3</sup> )	Catalog Number		
				1 Bottom	2 Bottom	Feed-Thru
<b>Size 1 Pre-Drilled Enclosures</b>						
 01 For 1 actuator 1 horizontal rail	M20	0.8 (1.76)	2.7 (164.76)	U21W101	U21W201	U21U101
	M25			U21W301	U21W401	U21U301
	3/4"			U21Z301	U21Z401	U21X301
 02 For 2 actuators 1 horizontal rail	M20	0.8 (1.76)	2.7 (164.76)	U21W102	U21W202	U21U102
	M25			U21W302	U21W402	U21U302
	3/4"			U21Z302	U21Z402	U21X302
<b>Size 2 Pre-Drilled Enclosures</b>						
 04 For 2 actuators 1 vertical rail	M20	1.0 (2.20)	4.2 (256.30)	U22W104	U22W204	U22U104
	M25			U22W304	U22W404	U22U304
	3/4"			U22Z304	U22Z404	U22X304
 06 For 3 actuators 2 horizontal rails	M20	1.0 (2.20)	4.2 (256.30)	U22W106	U22W206	U22U106
	M25			U22W306	U22W406	U22U306
	3/4"			U22Z306	U22Z406	U22X306
 08 For 4 actuators 2 horizontal rails	M20	1.0 (2.20)	4.2 (256.30)	U22W108	U22W208	U22U108
	M25			U22W308	U22W408	U22U308
	3/4"			U22Z308	U22Z408	U22X308
 26 For 1 ammeter 48x48 +1 actuator 1 vertical rail	M20	1.0 (2.20)	4.2 (256.30)	U22W126	U22W226	U22U126
	M25			U22W326	U22W426	U22U326
	3/4"			U22Z326	U22Z426	U22X326

<sup>①</sup> Overall hazardous location and ingress protection rating depends on the rating of the optional certified components used.

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### NEC:

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Class II, Groups E, F, G  
Class III  
Ex de IIC/DIP A21  
IP66, Type 4X①

### CEC:

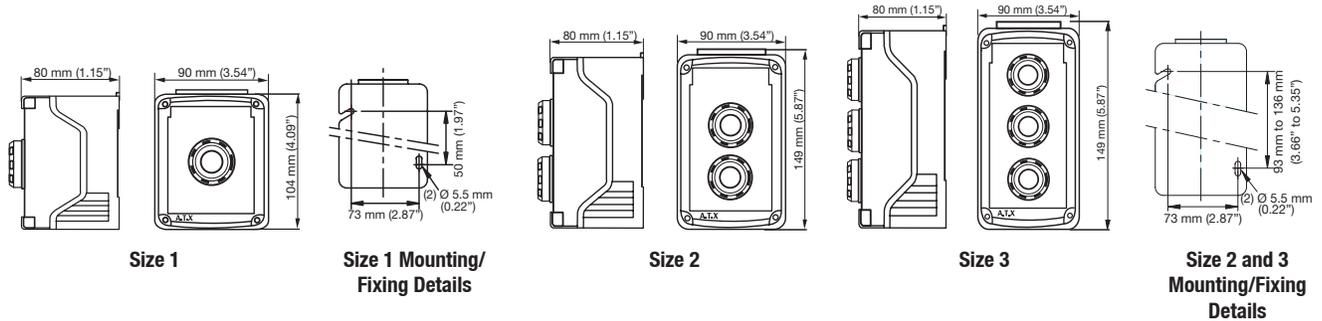
Class I, Division 2, Groups A, B, C, D  
Class II, Groups F, G  
Class III; Type 4X①  
Class I, Zone 1, AEx de IIC/ AEx tD 21  
IP66

### ATEX/IECEx:

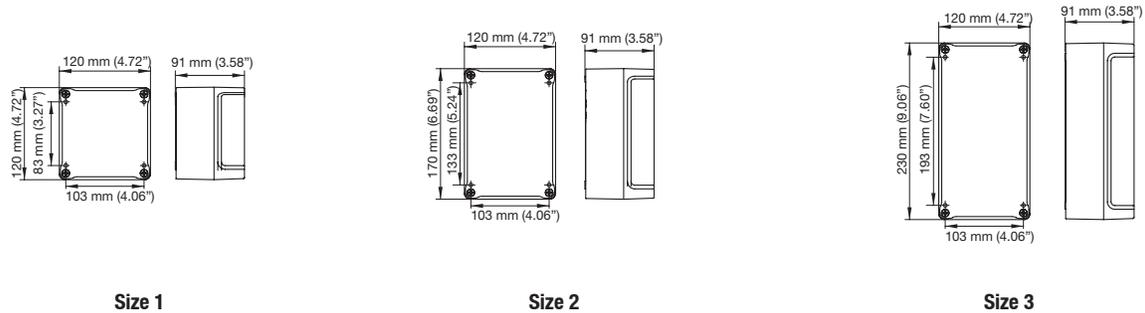
Zone 1 and 2 – 21 and 22  
II 2 GD  
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IP66 – IK10

### Dimensions in Millimeters (Inches)

#### Polyamide

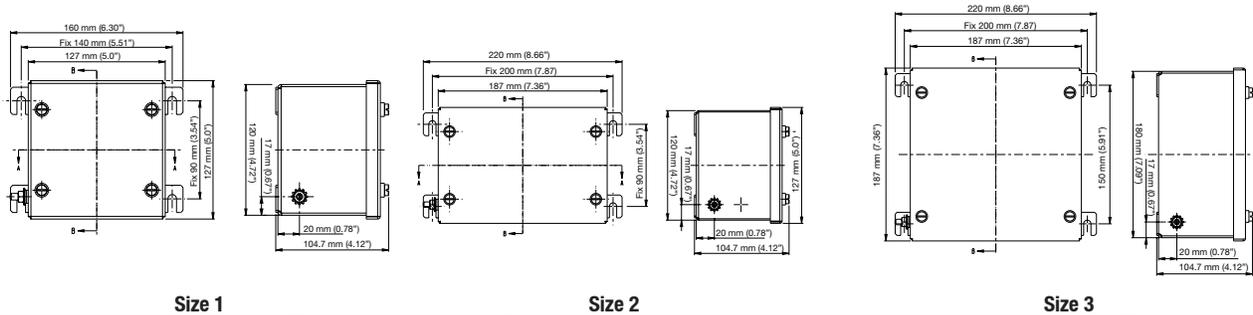


#### Fiberglass Reinforced Polyester

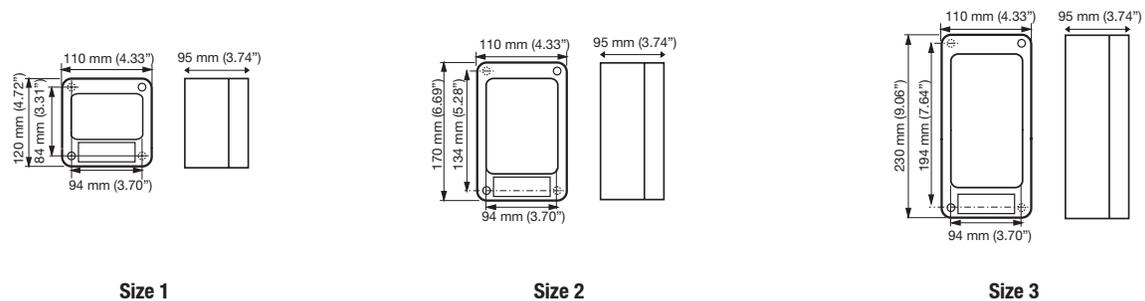


Mounting/Fixing Details for Above Boxes: Four Holes Ø 5 mm (0.20")

#### 316L Stainless Steel



#### Aluminum



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

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



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