

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 F, G
Class III
Ex de IIC/DIP A21
IP66, Type 4X[Ⓛ]

CEC:

Class I, Division 2, Groups A, B, C, D
Class II, Groups F, G
Class III; Type 4X[Ⓛ]
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

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

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IP66

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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

APPLETON™

- 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

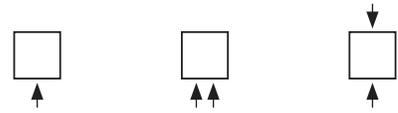
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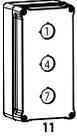
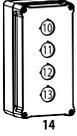
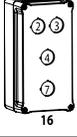
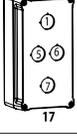
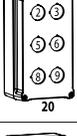
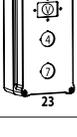
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ATEX/IECEX:
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 Ex II 2 GD
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 IP66 – IK10

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 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 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W311 | U23W411 | U23U311 |
| | 3/4" | | | U23Z311 | U23Z411 | U23X311 |
|  14 | M20 | | | U23W114 | U23W214 | U23U114 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W314 | U23W414 | U23U314 |
| | 3/4" | | | U23Z314 | U23Z414 | U23X314 |
|  16 | M20 | | | U23W116 | U23W216 | U23U116 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W316 | U23W416 | U23U316 |
| | 3/4" | | | U23Z316 | U23Z416 | U23X316 |
|  17 | M20 | | | U23W117 | U23W217 | U23U117 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W317 | U23W417 | U23U317 |
| | 3/4" | | | U23Z317 | U23Z417 | U23X317 |
|  18 | M20 | | | U23W118 | U23W218 | U23U118 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W318 | U23W418 | U23U318 |
| | 3/4" | | | U23Z318 | U23Z418 | U23X318 |
|  20 | M20 | | | U23W120 | U23W220 | U23U120 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W320 | U23W420 | U23U320 |
| | 3/4" | | | U23Z320 | U23Z420 | U23X320 |
|  23 | M20 | | | U23W123 | U23W223 | U23U123 |
| | M25 | 1.1 (2.43) | 4.2 (256.30) | U23W323 | U23W423 | U23U323 |
| | 3/4" | | | U23Z323 | U23Z423 | U23X323 |
|  24 | M20 | | | U23W124 | U23W224 | U23U124 |
| | M25 | 11.1 (2.43) | 4.2 (256.30) | U23W324 | U23W424 | U23U324 |
| | 3/4" | | | U23Z324 | U23Z424 | U23X324 |

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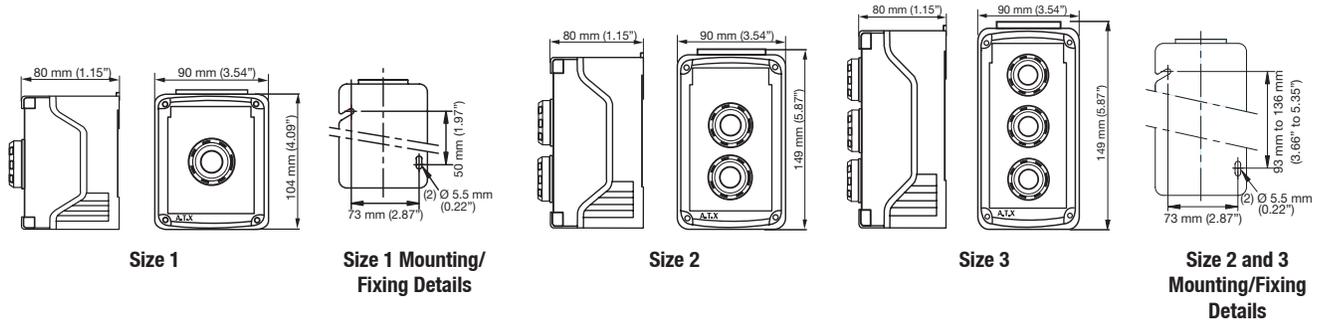
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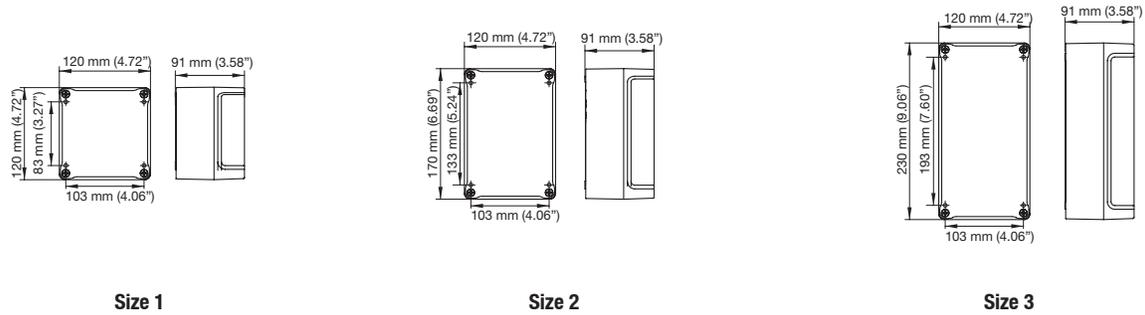
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IP66 – IK10

Dimensions in Millimeters (Inches)

Polyamide

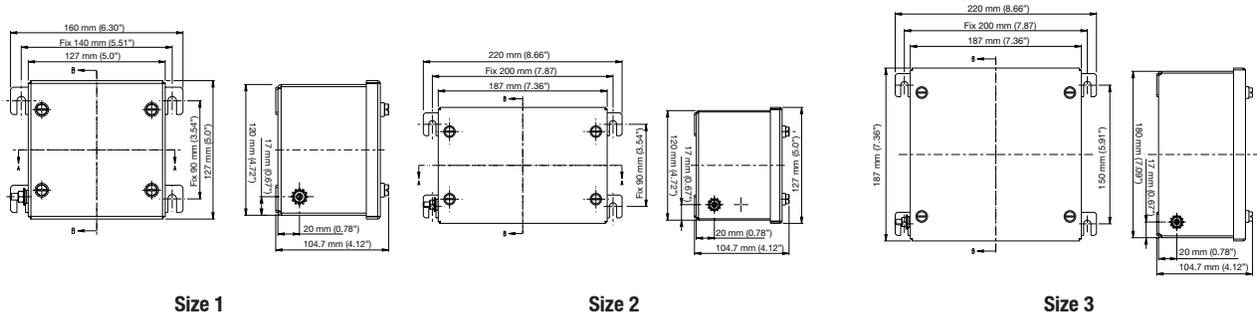


Fiberglass Reinforced Polyester

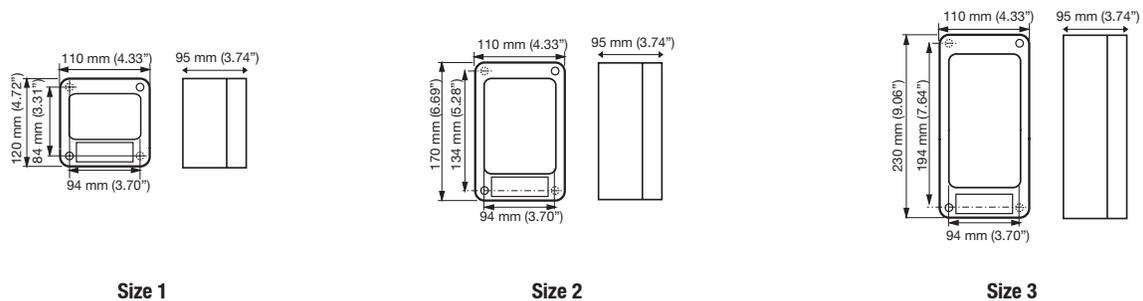


Mounting/Fixing Details for Above Boxes: Four Holes Ø 5 mm (0.20")

316L Stainless Steel



Aluminum



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

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