

# Unicode™ 2 Series Polyamide Control Stations

## Increased Safety

For use in IEC governed hazardous areas. Polyamide is not recognized for use in any NEC/CEC governed hazardous areas.

### ATEX:

Zone 1 and 2 – 21 and 22

II 2 GD

Ex de IIC/Ex demb IIC/Ex tD A21

IP66 – IK09

### Applications

- For use in IEC governed hazardous areas. Polyamide is not recognized for use in any NEC/CEC governed hazardous areas.
- 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
- Push buttons and selector switches are used in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

### Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours that can be used at:
  - 12 Vac to 254 Vac 50/60 Hz
  - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Contact block technical data:
  - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
  - IEC switching capacity:
    - AC12: 16 Amp/400 Vac
    - AC14: 10 Amp/400 Vac
    - AC15: 6 Amp/500 Vac
    - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
  - NEMA switching capacity: A600: 10 Amp/600 Vac
- Selector switch technical data:
  - IEC rated operating voltage: 690 Vac
  - IEC rated operating current: maximum 16 Amp
  - IEC switching capacity:
    - AC1: 16 Amp/690 Vac
    - AC15: 16 Amp/415 Vac
    - AC3: 8 Amp/500 Vac
    - AC3: 4 Amp/690 Vac
    - AC3: 16 Amp/690 Vac
    - DC1: 10 Amp/24 Vdc
    - DC1: 6 Amp/60 Vdc
    - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
    - DC1: 6 Amp/220 Vdc (3 contacts in series)
  - NEMA switching capacity: A600: 10 Amp/600 Vac
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5 mA).



U43W2 VA13A5A9



U42W2 A5A9

- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.

### Standard Materials

- Body, cover, cable gland and blanking plug: polyamide, black finish
- Cover screws: stainless steel
- Optional nameplates: stainless steel

### Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

### Options

- Nameplates: Lamacoid with different color combinations.
- Padlocking ability at left, center, right or any position on selector switches.
- Padlocking ability for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

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⊕ II 2 GD

Ex de IIC/Ex demb IIC/Ex tD A21

IP66 – IK09

### ATEX Certifications and Compliances

- Certification Type PCe
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: ⊕ II 2 G
    - Type of Protection: Ex de IIC/Ex demb IIC (depending of the actuator)
    - 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: -20 °C to +55 °C (-4 °F to +131 °F)
  - CE Declaration of Conformity: 50221
  - ATEX Certificate: LCIE 00 ATEX 6047
  - Index of Protection according EN/IEC 60529: IP66
  - Impact Resistance (shock): IK09

### EURASEC Certification

- EURASEC RU C-FR ГБ05.В.00911

### Other Certification ①

- INMETRO Certificate: BVC 11.0640-X

① INMETRO certification available on special request only. Contact your local sales representative for more information.

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II 2 GD

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IP66 – IK09

### Size 1 Polyamide Control Station:

Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number	
<b>Momentary Push Button</b>						
	Green insert "I" + red insert "O" with 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A3
	1x green push button "I" with 1NO momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A5
	1x red push button "O" with 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A9
<b>Emergency Stop</b>						
	Red mushroom head push-pull 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D9
	Red mushroom head push-pull 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D3
	Red mushroom head key release 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C9
	Red mushroom head key release 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C3
<b>Mushroom Head Push Button</b>						
	Black mushroom head push button 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2B3
	Red mushroom head push button 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2R9
<b>Key Push Button</b>						
	With key removable in both positions 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2E3

# Unicode™ 2 Series Polyamide Control Stations

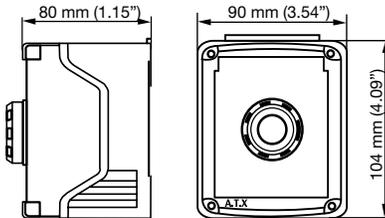
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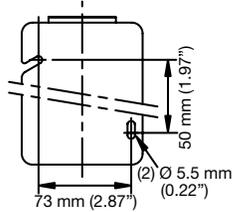
ATEX:  
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CONTROLS: NEC/CEC, ATEX/IECex INCREASED SAFETY CONTROL STATIONS

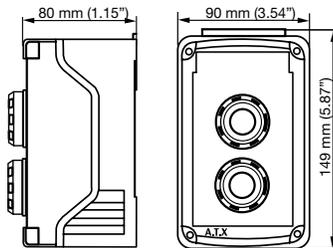
### Dimensions in Millimeters (Inches)



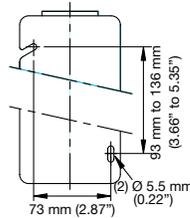
Size 1 Enclosure



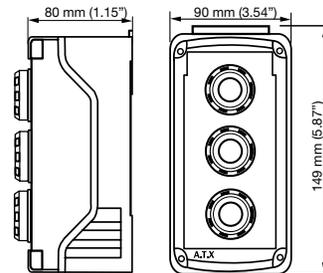
Size 1 Mounting/Fixing Details



Size 2 Enclosure



Size 2 and 3 Mounting/Fixing Details



Size 3 Enclosure