

“MORE CONTROL.”

 **Appleton**<sup>®</sup>



# MORE FLEXIBLE.

DIN Rail or cover-mounted devices. More combinations with fewer parts.  
These features — and more — make Appleton's Unicode 2 a leader in flexibility worldwide.

## RAIL MOUNTED



- 1, 2 or 3 contacts can be stacked under an actuator

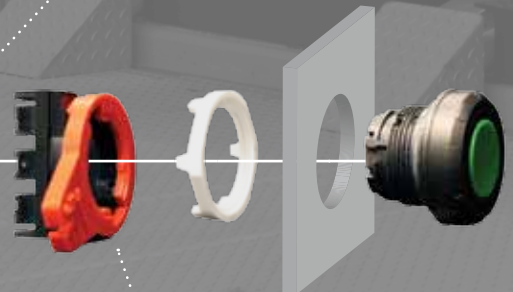


- Pilot light can be stacked with up to two contacts for "Push-To-Test" functionality

## COVER MOUNTED



- Long-life, high-intensity, universal (12-254 Vac/12-60 Vdc) LED pilot light



- Cover mount adaptor



# MORE CAPABLE.

Appleton now offers the most versatile line of control stations available worldwide: Unicode 2.

Appleton's Unicode 2 series of control stations offers new, significant benefits. Its improved versatility leads the industry. It offers the ability to back box or cover mount devices including illuminated push buttons that employ a high-intensity single LED with a lifetime of 100,000 hours. The Unicode 2 series permits vast configurability with fewer components, reducing your parts inventory. The bottom line: Appleton's Unicode 2 Series is easier to install and maintain.

These new benefits augment the Unicode 2 Series' significant strengths and features. It has ATEX and IECEx certification, with cCSAus pending. It comes in four enclosure materials – polyester, stainless steel, aluminum and polyamide.

It offers extreme protection, with Ex de contacts – for component-level protection that doesn't require external sealing – and housing materials that are weather and impact resistant.

More capable. More flexible. More control. Appleton's Unicode 2 modular series of control stations answers the increasing demands of hazardous location production lines.



## FEATURES

- Employs Ex de contact blocks with push buttons, illuminated push buttons, selector switches, control and load break switches, and pilot lights (LED)
- Pilot light employs high-intensity single LED with a lifetime of 100,000 hours that can be used at:
  - 12 Vac to 254 Vac 50/60 Hz
  - 12 Vdc to 60 Vdc
- Enclosures are rated for IP66/NEMA 4x
- Operators and contact blocks are spaced for easy access and ample room for wiring
- Accommodates up to three contact blocks per actuator
- Wide selection of cable glands and threaded hub entries at top and bottom locations
- Rail-mounted components held securely in place during operation and easily removed for service
- Brass inserts are provided to positively secure DIN Rail or mounting plate to back box
- Captive, corrosion-resistant stainless steel cover screws

## OPTIONS

- Lamacoid (with different color combinations) or stainless steel nameplate
- Padlocking guard capability for any position on selector switch
- Padlocking/guard capability for momentary and maintained push buttons
- Special contact arrangements for selector switches available upon request

## COMPLIANCES

- ATEX/IECEx
- CE II 2 G D
- Ex de IIC/Ex demb IIC T6
- Ex tD A21 T=75°C
- IP66 - IK10
- NEC/CEC
- Class I, Division 2, Groups A, B, C, D
- Class II, Division 2, Groups F, G
- AEx ed IIC T6
- Type 4X
- cCSAus pending

# UNICODE 2 CONTROL STATION

# MORE CONTROL.

Ex de devices and durable housing materials that resist weather and impact. Illuminated push buttons with 100,000-hour lifetime. The Unicode 2 is built for control.

## APPLICATIONS

- Local control stations and motor control stations suitable for use in the broadest possible range of applications
- Control of equipment at power plants, chemical and petrochemical plants, petroleum refineries, plants, pulp and paper processing plants and 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 wash down areas
- Suitable for  $-55^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$  (typically)

## STANDARD MATERIALS

- Fiberglass reinforced polyester, black finish
- 316L stainless steel
- Aluminum, grey finish
- Polyamide, black finish

## ACCESSORIES

- Wrench for changing actuators
- M5 earth stud
- Breather/drain available in brass, polyamide and stainless steel



Polyester Enclosure



Stainless Steel Enclosure



Aluminum Enclosure



Polyamide Enclosure

## OPERATORS

Available with start, stop, emergency stop, pilot lights, momentary pushbutton and selector switch



Push-Pull Emergency Stop



Keyed Maintained Pushbutton



Green Momentary Pushbutton



Red Momentary Pushbutton








Illuminated Pushbutton



Pilot Light



Selector Switch

UNICODE 2 - COMMON CONFIGURATIONS						
		Material & Device Mtg	Entry Type & Catalog Number			
Two Momentary Push Buttons			2 X M20 <sup>2</sup>	2 X M25 <sup>2</sup>	3/4" Bottom	3/4" Feed Thru
	1x Green Push-button with 1NO + 1NC contact 1x Red Push-button with 1NO + 1NC contact momentary contacts	Polyester DIN Rail Mtg	U21W2A3A3	U21W4A3A3	U21Z3A3A3	U21X3A3A3
		Stainless Steel DIN Rail Mtg*	U61W2A3A3	U61W4A3A3	U61Z3A3A3	U61X3A3A3
		Aluminum DIN Rail Mtg	U81W2A3A3	U81W4A3A3	U81Z3A3A3	U81X3A3A3
		* Push buttons are vertically mounted				
One Red Maintained Mushroom Head			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	Red Mushroom-head Push-Pull 1NO + 1NC maintained contact	Polyester DIN Rail Mtg	U21W2D3	U21W4D3	U21Z3D3	U21X3D3
		Polyamide DIN Rail Mtg <sup>1</sup>	U41W2D3	U41W4D3	U41Z3D3	U41X3D3
		Stainless Steel DIN Rail Mtg	U61W2D3	U61W4D3	U61Z3D3	U61X3D3
		Aluminum DIN Rail Mtg	U81W2D3	U81W4D3	U81Z3D3	U81X3D3
2-Position Selector Switch			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	2 fixed positions 1NO + 1NC contact	Polyester DIN Rail Mtg	U21W2H3	U21W4H3	U21Z3H3	U21X3H3
		Polyamide DIN Rail Mtg <sup>1</sup>	U41W2H3	U41W4H3	U41Z3H3	U41X3H3
		Stainless Steel DIN Rail Mtg	U61W2H3	U61W4H3	U61Z3H3	U61X3H3
		Aluminum DIN Rail Mtg	U81W2H3	U81W4H3	U81Z3H3	U81X3H3
3-Position Selector Switch			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	3 fixed positions 2NO contact	Polyester DIN Rail Mtg	U21W2J1	U21W4J1	U21Z3J1	U21X3J1
		Polyamide DIN Rail Mtg <sup>1</sup>	U41W2J1	U41W4J1	U41Z3J1	U41X3J1
		Stainless Steel DIN Rail Mtg	U61W2J1	U61W4J1	U61Z3J1	U61X3J1
		Aluminum DIN Rail Mtg	U81W2J1	U81W4J1	U81Z3J1	U81X3J1
Keyed Maintained Push Button			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	with key removable in both positions 1NO + 1NC maintained contact	Polyester DIN Rail Mtg	U21W2E3	U21W4E3	U21Z3E3	U21X3E3
		Polyamide DIN Rail Mtg <sup>1</sup>	U41W2E3	U41W4E3	U41Z3E3	U41X3E3
		Stainless Steel DIN Rail Mtg	U61W2E3	U61W4E3	U61Z3E3	U61X3E3
		Aluminum DIN Rail Mtg	U81W2E3	U81W4E3	U81Z3E3	U81X3E3
One Pilot Light			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	1x Red Pilot Light	Polyester DIN Rail Mtg	U21W2PR	U21W4PR	U21Z3PR	U21X3PR
		Polyamide DIN Rail Mtg <sup>1</sup>	U41W2PR	U41W4PR	U41Z3PR	U41X3PR
		Stainless Steel DIN Rail Mtg	U61W2PR	U61W4PR	U61Z3PR	U61X3PR
		Aluminum DIN Rail Mtg	U81W2PR	U81W4PR	U81Z3PR	U81X3PR
Two Momentary Push Buttons			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	1x Green Push-button with 1NO + 1NC contact 1x Red Push-button with 1NO + 1NC contact momentary contacts	Polyester DIN Rail Mtg	U22W2A3A3	U22W4A3A3	U22Z3A3A3	U22X3A3A3
		Polyamide DIN Rail Mtg <sup>1</sup>	U42W2A3A3	U42W4A3A3	U42Z3A3A3	U42X3A3A3
		Stainless Steel DIN Rail Mtg	U62W2A3A3	U62W4A3A3	U62Z3A3A3	U62X3A3A3
		Aluminum DIN Rail Mtg	U82W2A3A3	U82W4A3A3	U82Z3A3A3	U82X3A3A3
One Momentary Push Button One Push-Pull Emergency Stop			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	1x Green button with 1NO + 1NC momentary contact 1x Red Mushroom-head Push-Pull with 1NO + 1NC maintained contact	Polyester DIN Rail Mtg	U22W2A3D3	U22W4A3D3	U22Z3A3D3	U22X3A3D3
		Polyamide DIN Rail Mtg <sup>1</sup>	U42W2A3D3	U42W4A3D3	U42Z3A3D3	U42X3A3D3
		Stainless Steel DIN Rail Mtg	U62W2A3D3	U62W4A3D3	U62Z3A3D3	U62X3A3D3
		Aluminum DIN Rail Mtg	U82W2A3D3	U82W4A3D3	U82Z3A3D3	U82X3A3D3
One Pilot Two Momentary Push Buttons			2 X M20	2 X M25	3/4" Bottom	3/4" Feed Thru
	1x Green light 1x Green Push-button with 1NO 1x Red Push-button with 1NC momentary contacts	Polyester DIN Rail Mtg	U23W2PRA3A3	U23W4PRA3A3	U23Z3PRA3A3	U23X3PRA3A3
		Polyamide DIN Rail Mtg <sup>1</sup>	U43W2PRA3A3	U43W4PRA3A3	U43Z3PRA3A3	U43X3PRA3A3
		Aluminum DIN Rail Mtg	U83W2PRA3A3	U83W4PRA3A3	U83Z3PRA3A3	U83X3PRA3A3

<sup>1</sup> Polyamide models are rated for ATEX and IECEx only. They are not suitable for use on installations conforming to NEC regulations.

<sup>2</sup> Both entries on bottom.



Appleton is our premium line of industrial electrical products under EGS Electrical Group, a division of Emerson Industrial Automation.

Emerson Industrial Automation brings integrated manufacturing solutions to diverse industries worldwide. Our comprehensive product line, extensive experience, world-class engineering and global presence enable us to implement solutions that give our customers the competitive edge.

For over 150 years, our electrical product brands have been providing a rich tradition of long-term, practical, high quality solutions with applications ranging from the construction and safe operation of petrochemical and process plants to providing quality power that precisely controls automotive robotic production.

Engineers, distributors, contractors, electricians and site maintenance professionals around the world trust Emerson Industrial Automation brands to make electrical installations safer, more productive and more reliable.

EGS is organized into three focused businesses that provide distributors and end-users expert knowledge and excellent service.

**Electrical Construction Materials**  
This group manufactures a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies, and industrial lighting. Whether the application is hazardous location, industrial, or commercial, the ECM group has the products to meet your needs.

**Power Quality Solutions**  
This group offers the broadest power quality line including UPS, power conditioners, voltage regulators, shielded transformers, surge suppression devices and power supplies.

**Heating Cable Systems**  
This group offers a broad range of electrical heating cable products for residential, commercial, and industrial applications.

Electrical Construction Materials



Power Quality Solutions



Heating Cable Systems



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