

UNICODE® 2 SERIES STAINLESS STEEL CONTROL STATIONS – PRODUCT GUIDE





BUILT FOR YOUR EXACT REQUIREMENTS

Appleton's Unicode® 2 modular series of control stations answers the increasing demands of hazardous location production lines. These stainless steel control stations are available in nine preconfigured models. Customized versions are available in four enclosure sizes with twenty-one operators to choose from – providing greater choice and flexibility to meet almost any application.

STANDARD MATERIALS

• Body, cover and cover screws: 316L stainless steel, natural finish

FEATURES

- Employs AEx de method of protection which eliminates the need for external seals.
- Operators include push buttons, selector 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 250 Vac, 50/60 Hz
- 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- Enclosures are rated for IP66/ NEMA 4X with firmly secured gaskets.
- Operators and contact blocks are spaced to provide ample space for easy wiring.
- TS35 rail mounted components are held securely in place during operation and easily removed for service.
- No wiring to the cover required.
- Captive, corrosion resistant stainless steel cover screws.







CUSTOMIZABLE EMPTY PRE-DRILLED ENCLOSURE



DESIGNED FOR THE GLOBAL MARKETPLACE

Unicode® 2 control stations are designed to suit your needs for corrosion resistance and durability. They offer extreme protection, with Ex de contacts – for component-level protection that does not require external sealing – and housing materials that are weather and impact resistant.

SUITABLE APPLICATIONS

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of 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 highly corrosive and washdown areas.

CERTIFICATIONS AND COMPLIANCES

- NEC/CEC Certification Type JBe
- Class I, Division 2, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Type 4X
- Ex de IIC; DIP A21, IP66
- Class I, Division 2, Groups A, B, C and D; Class II, Groups F and G, Class III; Type 4X
- Class I, Zone 1, AEx de IIC; AEx tD 21, IP66
- Voltage: Rated 600 V max., 10 A max.
- Contact Block Voltage: Rated 600 V heavy duty
- CAN/CSA Standards: C22.2 No. 0-M91, No. 14-05, No. 94-M91, No. 213-M1987, No. 60079-0:07, No. 60079-1:07, No. 60529:05, E60079-7-03, E61241-1-1:02
- UL Standards: 50, 508, 60079-0, 60079-1, 60079-7
- Other Standards: ANSI/ISA 61241-0(12.10.02)-2006, ANSI/ISA 61241-1(12.10.03)-2006
- cCSAus Certificate: 2356952
- ATEX/IECEx Certification Type |Be
- Gas: Zone 1 and 2
- Dust: Zone 21 and 22
- T Rating: 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)
- CE Declaration of Conformity: 50232
- ATEX Certificate: LCIE 02 ATEX 6118X
- IEC Certificate: LCIE Ex 02.010X
- Impact Resistance (shock): IK10

SUITABLE LOCATIONS





WASTEWATER TREATMENT PLANTS



PULP AND PAPER PROCESSING PLANTS



FOOD AND BEVERAGE PLANTS

SIMPLE OPERATION

Appleton's Unicode® 2 control stations are designed for easy operation with AEx de contact blocks with push buttons, LED pilot lights and selector switches.

STAINLESS STEEL ENCLOSURE

The enclosure is designed to withstand high temperatures, low temperatures, high-impact resistance, are corrosion resistant and can be washed down.



DIN RAIL MOUNT

Allows for easier wiring during installation and maintenance



CONTACT BLOCK

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



ILLUMINATED PUSH BUTTON

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

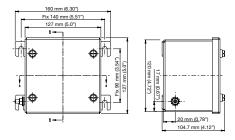
CAPTIVE STAINLESS STEEL SCREWS

Our design incorporates captive stainless steel screws which can increase safety.



PRECONFIGURED CONTROL

Appleton offers nine preconfigured Unicode® 2 control stations. Additional operators are available to allow units to be customized providing greater flexibility and more capabilities. These control stations can be customized on site with ease.



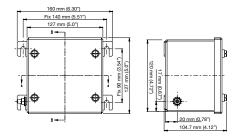
Size 1 Enclosure

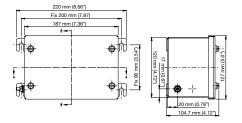
	Description/Function	Enclosure Size	Bottom NPT Hubs	Catalog Number
Two Momentary Pus	hbuttons			
0	1x green pushbutton with 1NO + 1NC contact 1x red pushbutton with 1NO + 1NC contact START(G)/STOP(R)	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4A3A3
One Red Maintained	Mushroom Head Pushbutton			
	EMERGENCY-STOP 2NO Contacts	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4D3
One Momentary Pus	hbutton			
	1x pushbutton with 1NO + 1NC contact with 1x red insert and 1x green insert (interchangeable)	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4A3
One Pilot Light				
	1x red pilot light	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4PR
•	1x green pilot light	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4PG



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Size 1 Enclosure

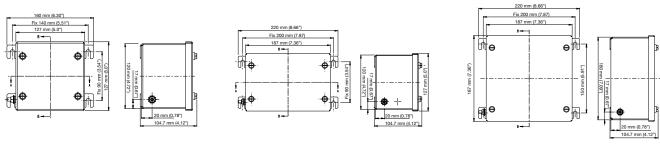
2NO contacts

Size 2 Enclosure

	Description/Function	Enclosure Size	Bottom NPT Hubs	Catalog Number
One Pilot Light and Tv	wo Momentary Pushbuttons			
0	1x green pushbutton with 1NO + 1NC contact 1x red pushbutton with 1NO + 1NC contact START(G)/STOP(R) 1x green pilot light	2	2 x 3/4" NPT Hubs, 1 Plugged	U62Z429PGA5A9
2-Position Selector Sv	witch			
0	2 fixed positions 1NO + 1NC contact	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4H3
3-Position Selector Sv	witch			
5 5	Maintained contact Hand-Off-Auto and Blank Nameplate 2NO contacts	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4J1
0	Spring Return from Left Jog-Off-Auto and Blank Nameplate	1	2 x 3/4" NPT Hubs, 1 Plugged	U61Z4N1

MORE FLEXIBLE CONTROL

Appleton offers four pre-drilled Unicode® 2 enclosures that can be customized with operators and supporting accessories providing more flexibility and more capabilities. These control stations can be customized on site with ease.



			1
Size 1 Enclosure	Size 2 Enclo	sure	Size 3 Enclosure
	Description/Function	Bottom NPT Hubs	Catalog Number
Size 1 Pre-Drilled Enclosures			
	For 1 actuator 1 vertical rail	2 x 3/4" NPT Hubs, 1 Plugged	U61Z401
Size 2 Pre-Drilled Enclosure			
	For 2 actuators 1 vertical rail	2 x 3/4" NPT Hubs, 1 Plugged	U62Z404



For 3 actuators 1 vertical rail

2 x 3/4" NPT Hubs, 1 Plugged

U62Z429

Size 3 Pre-Drilled Enclosure



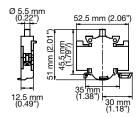
For 6 actuators 2 vertical rails

2 x 3/4" NPT Hubs, 1 Plugged

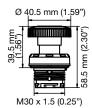
U63Z432

CUSTOMIZE YOUR EXPERIENCE

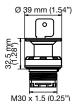
Appleton offers optional Unicode® 2 operators and supporting accessories offering flexibility and more capabilities.







Mushroom Pushbuttons



Key Release Mushroom Head Pushbutton

1-POLE CONTACT BLOCKS

		Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
	1 x NO	0.032 (0.071)	0.06 (3.66)	1	UCB5R
	1 x NC	0.032 (0.071)	0.06 (3.66)	1	UCB9R

MUSHROOM PUSHBUTTONS

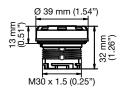
INIOSHKOOINI POSHBOTT	ONS					
		Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number	
Spring Return Mushroom H	lead Pushbutton (40 mm)					
	Red	0.045 (0.99)	0.26 (15.87)	1	UROR	
	Black	0.045 (0.99)	0.26 (15.87)	1	UBOR	
Push-Pull Maintained Mushroom Head Pushbutton (40 mm)						
	Red Emergency Stop	0.045 (0.99)	0.12 (7.32)	1	UDOR	

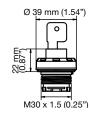
KEY RELEASE MUSHROOM HEAD PUSHBUTTON

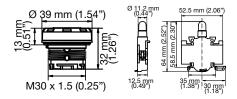
	Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
Red	0.085 (0.183)	0.09 (5.49)	1	UCOR

CUSTOMIZE YOUR EXPERIENCE

Appleton offers optional Unicode® 2 operators and supporting accessories offering flexibility and more capabilities.







Pushbutton

Key Momentary Pushbutton

Spring Return Illuminated Pushbutton and Contact Block

PUSHBUTTONS

Spring Return - Pushbutton		Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
	Red + Green	0.03 (0.06)	0.06 (3.66)	1	UAORGR
	Green	0.03 (0.06)	0.06 (3.66)	1	UAOGR
	Red	0.03 (0.06)	0.06 (3.66)	1	UAORR

KEY MOMENTARY PUSHBUTTON

	Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
Key removable in both positions	0.080 (0.176)	0.08 (4.88)	1	UEOR

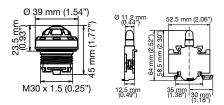
SPRING RETURN ILLUMINATED PUSHBUTTON

High Intensity Single LED Light:	12 Vac to 254 Vac,	Weight kg (lb) 50/60 Hz and 12 Vdc to 6	Volume dm³ (in³) 0 Vdc (Pilot Light Contact	Pack t Block Included)	Catalog Number
	Green	0.062 (0.137)	0.26 (15.87)	1	ULGOR
	Red	0.062 (0.137)	0.26 (15.87)	1	ULROR

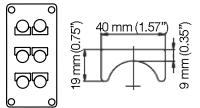


CUSTOMIZE YOUR EXPERIENCE

Appleton offers optional Unicode® 2 operators and supporting accessories offering flexibility and more capabilities.







Pilot Light and Contact Block

Rotary Actuators

Standard Legend Plate

PILOT LIGHTS

		Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
Pilot Light: 12 Vac to 254, Vac	50/60 Hz, 12 Vdc to 60 Vd	c (Pilot Light Contact Block	Included)		
	Green	0.056 (0.123)	0.29 (17.70)	1	UPG0R
	Red	0.056 (0.123)	0.29 (17.70)	1	UPROR
	Yellow	0.056 (0.123)	0.29 (17.70)	1	UPY0R
	Spare Lenses				
	Green	0.03 (0.06)	0.06 (3.66)	1	UPGL
	Red	0.03 (0.06)	0.06 (3.66)	1	UPRL
	Yellow	0.03 (0.06)	0.06 (3.66)	1	UPYL

ROTARY ACTUATORS

		Weight kg (lb)	Volume dm³ (in³)	Pack	Catalog Number
	2-Position Rotary Actuator				
	2-Positions Selector Switch (O-I), 2 maintained positions	0.038 (0.084)	0.09 (5.49)	1	UH0R
	3-Position Rotary Actuator				
	3-Position Selector Switch, I and II position maintained (I-O-II)	0.038 (0.084)	0.09 (5.49)	1	UJOR
	3-Position Selector Switch, I and II spring return to O (I->O<-II)	0.038 (0.084)	0.09 (5.49)	1	UKOR
	3-Position Selector Switch, I maintained, II spring return to O (I-O<-II)	0.038 (0.084)	0.09 (5.49)	1	UMOR
	3-Position Selector Switch, I spring return to O, II maintained (I->O-II)	0.038 (0.084)	0.09 (5.49)	1	UNOR

STANDARD LEGEND PLATES Self-adhesive yellow laminated plastic (black lettering)

	Text	Catalog Number
START	Blank (set of 10)	ULPS
	START	ULPSA07
	STOP	ULPSA08
	RESET	ULPSA20
	EMERGENCY STOP	ULPSA21
	ON—OFF	ULPSH02
	HAND—OFF—AUTO	ULPSJ04
	JOG—OFF—AUTO	ULPSJ10

Emerson 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. Appleton is our premium line of lighting and electrical products for hazardous and industrial locations.

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 brands to make electrical installations safer, more productive and more reliable.

The Appleton Group business unit of Emerson is organized into three focused groups that provide distributors and end users expert knowledge and excellent service.

Electrical Construction Materials

This group is made up of the Appleton and O-Z/Gedney brands. They manufacture a broad range of electrical products including conduit and cable fittings, plugs and receptacles, enclosures and controls, conduit bodies and industrial and hazardous lighting. Whether the application is hazardous location, industrial or commercial, the electrical construction materials group has the products to meet your needs.

Power Quality Solutions

The SolaHD brand offers the broadest power quality line, including uninterruptible power supplies, power conditioners, voltage regulators, shielded transformers, surge protection devices and power supplies.

Heating Cable Systems

This group is made up of the EasyHeat and Nelson brands. They offer a broad range of electrical heating cable products for residential, commercial and industrial applications. Asia/Pacific + 65.6556.1100

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