SDC
Security Door Controls

Universal Door Control Modules
Field Programmable Access Hardware Controller

The UR4 is capable of providing the logic of 8 relays

UR-2A   Two Station Controller
UR-4A   Four Station Controller
           6 Field Selectable Application Modes

The UR series is a microprocessor based controller that provides 7 different, field selectable application modes for two, three or four stations. 1 or 2 controller may be installed in SDC 600 series power supplies. Single and multiple controllers may be mounted in remote junction boxes and powered by a single power supply.

Interface and Centralized Wiring
The UR Series Access Hardware Controller provides complete system interface capability and centralized wiring of all components, including; access controls, electric locks, peripheral equipment and monitoring contacts.

Reduced Components and Engineering
Applications that require several individual relays may be costly and complicated, requiring additional engineering time to produce the proper system logic. The UR eliminates the need for multiple or different relays. All system logic is reduced to one controller.
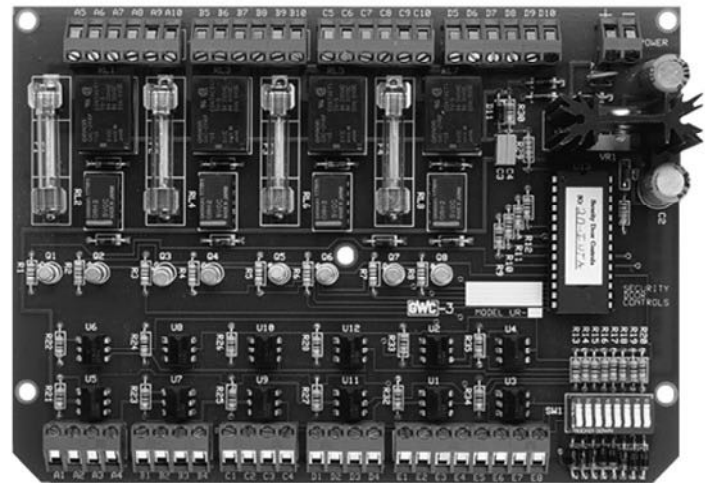
Selectable Output Modes
• Conventional Relay
• Latching Relay (pulse on, pulse off)
  Latch individual station or all stations
• Time Delay Relay 1-35 seconds
• *Dual, Latching & Time Delay Relay
• Mantrap - All doors normally locked
• Interlock - All doors normally unlocked
• Interlock - 1 door locked, 1 door unlocked. **UR-2A** only
* Primary input triggers the Time Delay
  Auxiliary input triggers latch function

The relay mode may be different per individual station. When mantrap or interlock mode is selected all outputs operate the same.

Documentation
Several access control and mantrap system wire diagrams are provided for common applications.

7 Field Selectable Application Modes

UR-2A Specifications
Input Voltage: 12 or 24VDC +/- 10%
Input Current: 280 mA, at rest
                   350 mA, operating
Trigger Inputs: N.O. Dry, Optically Isolated

Outputs:
2 Fused SPDT Dry, 5 Amp @ 30VDC
2 Non-fused, SPDT Dry, 1 Amp @ 30VDC

UR-4A Specifications
Input Voltage: 12 or 24VDC +/- 10%
Input Current: 350 mA, at rest
                   430 mA, operating
Trigger Inputs: N.O. Dry, Optically Isolated

Outputs:
4 Fused SPDT Dry, 5 Amp @ 30VDC
4 Non-fused, SPDT Dry, 1 Amp @ 30VDC
Dimensions: 7" W x 5" H x 2" D
                (177.8 x 127 x 50.8 mm)

Table 1 - Mode DIP Switch Settings *

<u>Control Mode SW8 = ON</u>

SW1	On=TD/LR	Off=CR	Door A
SW2	On=TD/LR	Off=CR	Door B
SW3	On=TD/LR	Off=CR	Door C
SW4	On=TD/LR	Off=CR	Door D
SW5	On=5 Sec.	Off=0	
SW6	On=10 Sec.	Off=0	
SW7	On=20 Sec.	Off=0	

TD Mode time switch settings (SW5-7) are additive.
Min. Time = 1 Sec. Max. time = 35 Sec.

<u>Interlock Mode SW8 = OFF</u>

SW1	On=Interlock "A" Mode Doors A,B,C,D	
SW2	On=Mantrap "B" Mode Doors A,B,C,D	
SW3	Not Used	
SW4	Not Used	
SW5	On = 5 Sec.	Off = 0
SW6	On = 10 Sec.	Off = 0
SW7	On = 20 Sec.	Off = 0

Mantrap "B" unlock time switch settings (SW5-7) are additive. Min. time = 1 Sec., Max. time = 35 Sec.

*Note: The UR2A/4A switch settings are subject to product improvement changes and revisions to the controller program. Please refer to the UR2A/4A Installation Instructions that are shipped with each unit.

<u>UR2A Electrical Specifications</u>

UR2A   (2) Fused Outputs, SPDT Dry contacts; 5 Amp @ 30VDC
(2) Non-fused Outputs, SPDT Dry contacts; 1 Amp @ 30VDC
(2) Inputs per Station, (4) Total Inputs; plus (4) Auxiliary Inputs
Supply Voltage: 12 VDC or 24 VDC, +/- 10%.
Supply Current: 0.28 Amp Typ; 0.35 Amp Max.

<u>UR4A Electrical Specifications</u>

UR4A   (4) Fused Outputs, SPDT Dry contacts; 5 Amp @ 30 VDC
(4) Non-Fused Outputs, SPDT Dry contacts; 1 Amp @ 30 VDC
(2) Inputs per Station, (8) Total Inputs; plus (4) Auxiliary Inputs
Supply Voltage: 12 VDC or 24 VDC, +/- 10%

<u>UR2A/4A Dimensions</u>

7" L x 5" W x 1-5/8" H (177.8mm L x 127mm W x 41.3mm H)

<u>Ordering Information</u>

The UR2A/4A can be mounted in a junction box or installed as an optional board in any SDC 600 Series Power Supply. (Models 622 through 626, 631A and 631RFA).

SDC Part Numbers: UR2A 2 Station Controller
UR4A 4 Station Controller