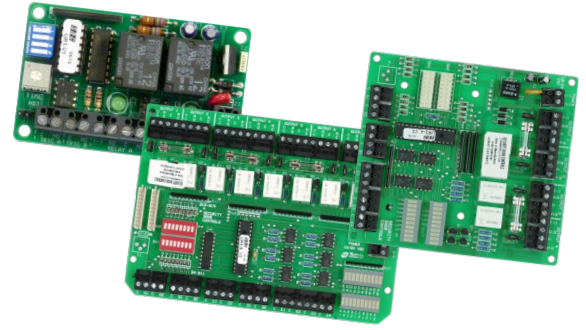


# UR Series

## Universal Microprocessor-Based Controllers



One door controller, multi-door applications: whether you need to control one door or many doors, there's an affordable, field programmable **SDC UR series** door controller to create your perfect door opening system to reduce costly programming and wiring time. The award-winning UR series is the same simple, reliable, flexible solution to door control trusted in thousands of installations since 1998.

**UR-1 models** provide a choice of individual dip switch selectable relay operating modes or system modes for lock control, monitoring, communicating door or lock system logic. Relay output modes may be individually configured as a Dry Contact or Voltage (wet) Output. Relays may be configured to work independently or in tandem with adjacent relay.

**UR2-4 and UR4-8 models** have programmable system and station modes to meet virtually any applications such as airlock, interlock, mantrap and shared bathroom.



### MODELS

- UR-1** Microprocessor Controller, Two Relays
- UR2-4** Microprocessor Controller, Four Relays
- UR4-8** Microprocessor Controller, Eight Relays



### STANDARD FEATURES

- Utilize same controller for multiple applications
- Centralized wiring for all locks, access control, monitory contacts and peripheral equipment
- Reduced wiring, easier troubleshooting
- Microprocessor based system logic
- Multiple selectable relay & system logic modes
- Selectable contact relay configuration modes
- Programmable system & station modes
- Optically isolated dry inputs
- Auto-sensing dual voltage
- Visual status indicators (LED)



## APPLICATIONS

### LOGIC MODES

The **UR-1 series** controllers offer multiple selectable relay and system logic modes. Configurations permit installer configuration per application requirements:

- Conventional relays
- (2) Time delay relays, adj. 1-60 sec
- (1) Time delay relays x anti-tailgate input
- (2) Independent latching relays - 1 N.O. trigger per relay (pulse on, pulse off)
- Tandem latching relays - 2-SPDT (DPDT) output (input (A) latch ON, input (B) latch OFF)
- (1) Time delay relay, (1) latching relay
- (1) Time delay relay, (1) control relay
- (2) Door airlock/cleanroom system
- Communicating bathroom system - Shared by two hospital or dorm rooms. Exiting unlocks both doors, ensuring access for both rooms
- Manual door sequencer - For one or two single or double door openings with high inrush (locks or exit devices (not to exceed power supply rating up to 7A)
- Automatic door sequencer - For one single or one double door opening with locks or exit devices

### PROGRAMMABLE SYSTEM MODES

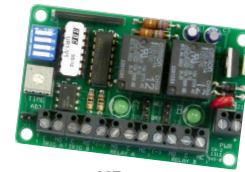
The **UR2-4 and UR4-8 series** controllers offer system selection providing appropriate mode of operation for each input and output:

- Airlock/Interlock Mode A - All doors normally unlocked, opening any door causes all other doors to lock.
- Mantrap Mode B - All doors normally locked. When any door is unlocked all other doors are incapable of unlocking.
- Mantrap Mode C - Select doors locked or unlocked. When unlocked door is opened, locked doors are incapable of unlocking. When a locked door is unlocked, normally unlocked doors lock and all other locked doors are incapable of unlocking.
- Shared Hospital/Dorm Bathroom A - Doors equipped with magnetic locks.
- Shared Hospital/Dorm Bathroom B - Doors equipped with electrified locksets.

### RELAY MODES

The **UR-1 series** controllers offer selectable contact configurations and permit installer configuration per application requirements.

- SPDT outputs jumper selectable wet and/or dry
- Selectable independent or tandem (Simultaneous, DPDT) activation
- Each tandem SPDT output may be wet and/or dry



UR-1

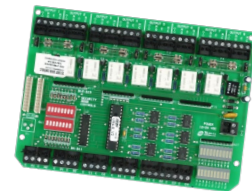
### PROGRAMMABLE STATION MODES

The **UR2-4 and UR4-8 series** controllers offer programmable station modes allowing each output to be individually programmed with its own mode of operation:

- Conventional relay
- Latching relay (on/off)
- Latch multi-station zones (on/off) or all stations (on/off)
- Time delay relay, adj. 1-60 sec
- Dual function latching (on/off), plus 1-60 sec timed output when on

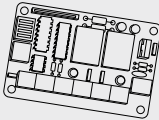
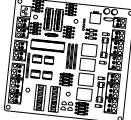
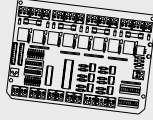


UR2-4

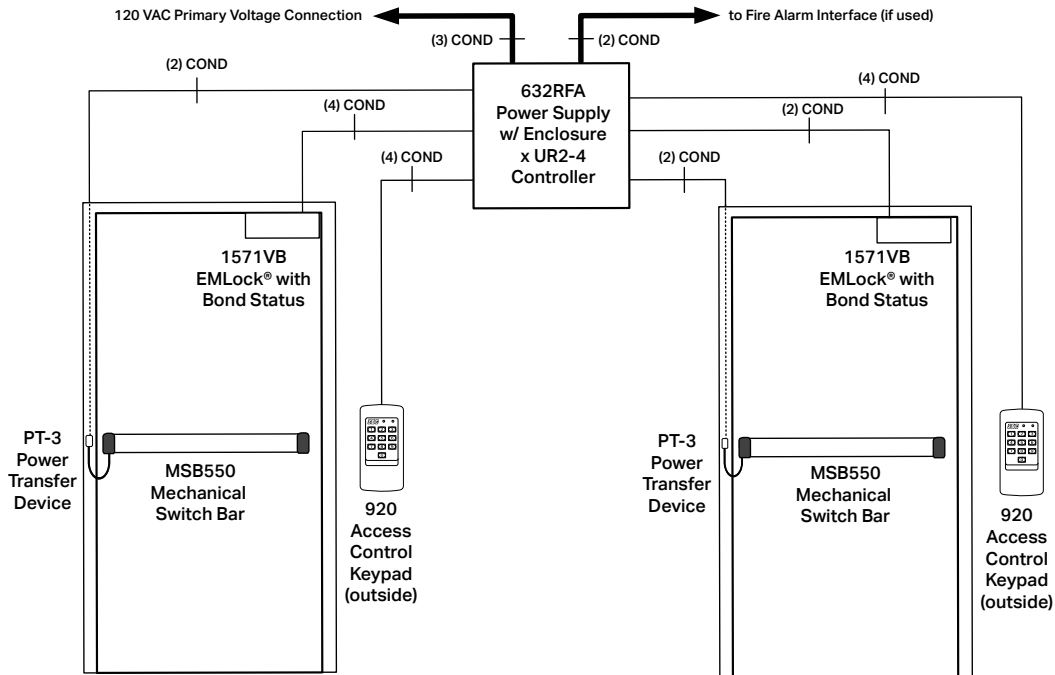


UR4-8

 CROSS REFERENCE

Series	UR-1	UR2-4	UR4-8
			
<b>Application</b>	Relay configurable control for one or two locks (trigger, timed, latching or sequenced)	Interlocks, mantraps and communicating bathroom (two doors)	Interlocks, mantraps and communicating bathroom (four doors)
<b>Stations</b>	1	2	4
<b>Inputs (Per Station)</b>	(2) Relay, N/O	(4) Relay, N/O or N/C (4) Auxiliary, N/O	(8) Relay, N/O or N/C (4) Auxiliary, N/O
<b>Outputs</b>	(2) SPDT, Wet or Dry	(2) SPDT, Fused, Wet or Dry (2) SDPT, Unfused, Wet or Dry	(4) SPDT, Fused, Wet or Dry (4) SDPT, Unfused, Wet or Dry

**MANTRAP MODE "B" - ONLY ONE DOOR MAY BE ACCESSED AT ANY TIME**




## SPECIFICATIONS

	UR-1	UR2-4	UR4-8
<b>Input Voltage</b>	12/24 VDC ± 10%	12/24 VDC ± 10%	12/24 VDC ± 10%
<b>Input Current (Max)</b>	120 mA @ 12 VDC 175 mA @ 24 VDC	140 mA @ 12/24 VDC	250 mA @ 12/24 VDC
<b>Dimensions</b>	3 <sup>13</sup> / <sub>16</sub> " x 2" x 1"	4 <sup>1</sup> / <sub>2</sub> " x 5" x 7 <sup>5</sup> / <sub>8</sub> "	7" x 5" x 7 <sup>5</sup> / <sub>8</sub> "
<b>Inputs</b>	SPST-N/O (2) (a) Two Dry for Individual Relay (b) Tandem-Simultaneous Activation	SPST-N/O or N/C (4) Relay SPST-N/O (4) Auxiliary	SPST-N/O or N/C (8) Relay SPST-N/O (4) Auxiliary
<b>Outputs</b>	Wet and/or Dry Wet Voltage Same as Module Input (a) Two Wet and/or Dry (b) Tandem-Simultaneous Activation	Wet and/or Dry Individually Configured Wet Voltage	Wet and/or Dry Individually Configured Wet Voltage
<b>Relay Contact</b>	SPDT (2) 7 Amp @ 30 VDC Inductive	SPDT (2) Fused SPDT (2) Non-fused 7 Amp @ 30 VDC Resistive	SPDT (4) Fused SPDT (4) Non-fused 7 Amp @ 30 VDC Resistive

## HOW TO ORDER

### FOLLOW STEPS FOR ORDERING

 Designates optional step

#### 1| SPECIFY MODEL

**UR-1** Microprocessor Controller, Two Relays

**UR2-4** Microprocessor Controller, Four Relays

**UR4-8** Microprocessor Controller, Eight Relays

STEP NUMBER: 1

ORDERING EXAMPLE: **UR-1**