Universal Door Control Modules

Field Programmable Access Hardware Controller

13 Field Selectable Station Modes & Systems
UR Series Universal Door Controllers provide a choice of individual dip switch selectable relay operation modes or system modes 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. Features include:
• 4 selectable relay output modes
• 7 selectable mantrap & bathroom systems
• 3 system control inputs, On, Off, Lockout
• Emergency Release Input

Benefits
• Use the same controller for all virtually multi-door applications
• Centralized wiring for all locks, access controls, monitoring contacts and peripheral equipment
• On board logic reduces need for communicating door and lock contacts and standalone relays.
• Reduced wiring, easy troubleshooting

Station Capacity - 1 Relay Per Station
Select operation mode for each station. Select station output configuration: SPDT Dry contact or Wet output. Wet output same as module input, 12 or 24VDC

UR2-4
4 NO inputs
4 Wet (1-On/1-Off) or SPDT Dry (2 fused, 2 non-fused)

UR4-8
8 NO inputs
8 Wet (1-On/1-Off) or SPDT Dry (4 fused, 4 non-fused)

Station Capacity - 2 Relays Per Station
Select operation mode for each station. Select station output configuration, Wet or Dry: Wet output same as module input, 12 or 24VDC

UR2-4
4 NO inputs
2 fused Wet or Dry Outputs
2 non-fused Wet or Dry outputs

UR4-8
8 NO inputs
4 fused Wet or Dry Outputs
4 non-fused Wet or Dry outputs

Programmable Station Modes
Each output may 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 1-60 seconds
• Dual function Latching on/off, plus 1-60 second Timed output when on.
• Emergency Release Input may control select stations or all stations

UR4-4 Specifications
Input Voltage: 12 or 24VDC +/- 10%
Input Current: 130mA max.
Relay Inputs: 4-SPST, NO Dry, Optically Isolated
Auxiliary Inputs: 4-SPST, NO Dry, Optically Isolated
Outputs Specification
Field Selectable Voltage Output or Dry Contact
Outputs individually configured as a dry contact or 12 or 24VDC Voltage Output, (1) Normally (On) and 1 Normally (Off)
2 fused SPDT relays, 7 Amps @ 30VDC
2 non-fused SPDT relays, 7 Amps @ 30VDC

Programmable System Modes
System selection provides 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.
• 3 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 locked 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.

UR4-8 Specifications
Input Voltage: 12 or 24VDC +/- 10%
Input Current: 130mA max.
Relay Inputs: 8-SPST, NO Dry, Optically Isolated
Auxiliary Inputs: 4-SPST, NO Dry, Optically Isolated
Outputs Specification
Field Selectable Voltage Output or Dry Contact
Outputs individually configured as a dry contact or 12 or 24VDC Voltage Output, (1) Normally (On) and 1 Normally (Off)
4 fused SPDT relays, 7 Amps @ 30VDC
4 non-fused SPDT relays, 7 Amps @ 30VDC
Dimensions: 7” W x 5” H x 2” D
(177.8 x 127 x 50.8 mm)

Individual Contact Configuration
Each relay may be configured as a dry contact or voltage output.

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