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# CR351-5 How2

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# Revision History

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MDH	5-Nov-10	Initial document	0.1

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## 1. CR351-5 Setup

The CR351-5 setup can be found by clicking **setup**, on the menu bar, **setup editor, CR351-5 Setup, open**.

### a. Fields

- **Controller:** Link to the controller setup. Used in order to identify which controller is currently being setup
- **Doors:** Number of doors on the controller. If two doors is selected, then reader 1 will trigger latch 1, and reader two will trigger latch 2. If one door is selected then both reader1 and reader 2 will trigger latch 1.
- **Latch Sec:** The time in seconds that the latch will be latched(unlocked)
- **Latch 1, Latch 2:** The type of Latch in use.
  - **Normal Open:** The latch is normally open, typically used for booms, turnstiles, striker locks.
  - **Normal Closed:** The Latch is normally Closed, Typically used for Magnetic locks.
  - **Change Over:** each time the latch triggers it will change state and stay in the current state until next card badge. Example: card badge latch open, card badge latch closed.
- **Monitor:** The action complete setting. This is a door monitor wired into the controller, and will report the doors status, for example open or closed, also when the door is left open, or illegally opened
  - **Normal Open:** The switch/ contact is normally open. When the door is opened the contact/switch will close.
  - **Normal Closed:** The Switch/contact is normally closed. When the door is opened the contact/switch will open.
  - **Open Timeout:** Contact open when door closed – latch unlocked till time-out.
  - **Closed Timeout: Contact closed when door closed – latch unlocked till time-out.**
  - **Latch Closed till Door Closed: Contact closed when door closed – latch unlocked till door closes or time-out.**
  - **Latch open till Door Closed:** Contact open when door closed – latch unlocked till door closes or time-out.
  - **Too Long: Used in conjunction with Monitor, it determines if the door is open too long. If opened too long it is reported as too long and logged.**
- **R1 R2 Capture:** Card capture units can be connected to reader 1 or 2 (only reader 2 for CR351) of the controller and when a capture card is presented to reader 1 or 2, the card capture slot of the bin is opened (via aux. output for CR351, or the output configured for **capture output** for CR355 on the controller). Once a card is detected as being inserted (via aux. 3 input on the controller for CR351 and the input configured as the **capture input 1** or 2), the latch is energised. Motorised card readers can be installed which will capture cards set for capture. Captured card can be automatically disabled in the system when the capture option is set accordingly. When the capture type is set to **capture\_disable**, the card status, expire and count full statuses are set to disabled and the card is automatically disabled in all controllers.
  - **Capture: Sets controller to capture cards set for capture**
  - **Capture Disabled: Once capture cards have been captured the cards status is set to disabled.**
  - **Capture Pulse: Used when capture bin only requires a pulse, this capture bin will have its own internal logic. However all other functions are as normal**
- **Booth:**

- **Booth:** In Booth mode, the two doors can be selected to function as a one or two reader/door booth. Both modes require that two doors are selected and that action complete signals are in use. Latch monitor (CR355) can also be used. Selection of none disables booth functions.  
The sequence for booth mode (two readers) is; card is presented, and if access is allowed, the first door opens. When it closes and the present detection signal is active (input of the controller tied to a pressure mat or a beam inside the booth), the first door is locked and the second is unlocked. Only when the second door is detected as open, is the “entered” message generated. While the sequence is in progress, both readers are disabled. Selection of a push button results in the same sequence. If the sequence is not completed in 10 seconds, it is aborted and both doors are locked. When using a Softcon CR355 controller, the latch can also be monitored and the sequence then requires that the latch be monitored unlocked before door is detected as open and be monitored as locked after the door is detected as closed, with the rest of the sequence as normal. The CR355 can also set a booth busy output, being active while the booth process is busy. In CR355 controllers, the reader flashes red while the booth process is busy. CR355 requires the input type settings of action complete 1 and 2, booth presence, optionally latch 1 and 2 monitor and the output type settings of latch 1 and 2 and optionally the booth busy output.
- **Interlock:** Booth type Interlock (type 3 - only CR355) does not perform the booth sequence but prevents either door from unlocking if the other door is open or unlocked. A booth is also an interlock.
- **One Reader:** In the one door booth mode, the door to enter the booth is opened (slides to the other side), by a push button. When a card is presented to the reader in the booth, and access is granted, the door slides to grant exit, closing the entrance.
- **1 –Reader Controller:** The Booth type 1-reader controller (type 4 - only CR355) monitors reader enable 1 and reader enable 2 inputs. On receiving data from reader (connected to reader 1 port) and reader enable 1 is active (input low) - data is taken as from reader 1, else if reader enable 2 is active – data is taken as from reader 2. If neither is active, the reader LED is RED and data is discarded. All other functions of 1 (one latch relay) or 2 doors (2 latch relays) and action complete function (reporting not opened, opened too long, illegal open) as normal.
- **Front Module 1.1/1.2:** Sets a front module on reader 1 and 2 this is usually a CR375. The readers are connected to the Front module and information such as the time, reader name, card information can be displayed on it.

More functions are available by right clicking on the controller reference and selecting **Properties**.

- **APB Reset:** Anti-passback between the two readers of the booth, can be reset within the controller, via a push button (or key switch) connected to an input, when the controller goes Off-line, and can be APB can be enabled/Disabled via input. Cards enabled for either reader are enabled for both.
- **Aux Output:** The controller has a spare output which can be used as a system output (controlled via the PC) or used to indicate the last reader used (this can be used to indicate the direction of activity though a booth). Note that in card capture installations, the output is used to open the card deposit slot in the capture bin.
- **Reader Enable:** When set to enable on input (e.g. to a vehicle detection loop), the reader is only active when the reader enable input is high. Readers are can also be en-/disabled from the PC by setting the output ports for the reader (see I/O ports below). Setting the appropriate port to level 1 enables the reader and level 2 disables the reader. For CR351/4, aux input 3 is reserved for reader 1 enable and aux input 4 is reserved for reader 2. For CR355, the any input can be set by selecting type reader 1 or 2 enable. For CR355, the input is only monitored if the timegroup for level 1 is zero or if the set timegroup is active. When the time group is not active, the reader is enabled. Should the input be low (e.g. permanently linked to ground) and the time-group becomes active/not-active – the reader is disabled/enabled (note that as the input did not change, an input change is not reported). As permanently linking an

reader enable input to ground to effect reader disable on time group is the loss of an input, the reader enable output should be used.

- **Buzzer:** . The controller has an on-board buzzer which could be set to sound on alarm (when the door is left open too long, on multiple illegal entry attempts and when the door is opened illegally). When set to the beep mode, a single beep is sounded when the access is granted and a double beep when access is denied. When requiring a beeper for the second door (2 door selection), the aux. output is used for door 2.
- **Reader LED(s):** Normally, three LED's in the reader indicate ready (orange LED), access granted (green LED) or access denied (red LED). In the 2-LED mode, only access granted (green LED) or access denied (red LED) is indicated and the extra output (what would have been the orange LED) is used to indicate that the card should be captured (this is used in certain type of card readers to capture the card - on reader 1 or 2). When selecting the LED count option, the red LED flashes when access is denied as a result of the area count being full.
- **Reader TG:** The time group indicates when the reader must be used for access (e.g. always or only after hours). When not needed, it may be used, for example if the reader and PIN readers need only be used after hours, either may be used during operating hours for access. Time groups 16 to 30 have been configured for the Softcon CR351/4 controller and only these must be selected (the groups have been named accordingly). Note CR355A allows any of the first 60 time-groups to be used.
- **Pin TG:** As for the reader time group, the PIN time group sets when the PIN reader must be used for access. If both PIN and reader must be used, the PIN code is entered, followed by presenting the card. When only PIN is used, the code is entered, followed by the # key. Time groups 31 to 45 have been configured for the Softcon CR351/4 controller and only these must be selected (the groups have been named accordingly). Note CR355A allows any of the first 60 time-groups to be used.
- **Latch Click:** When set to click, the latch is energised with pulses, giving an audible clicking sound of the latch. This is used typically when using DC latches.
- **Illegal Attempts:** When number of unsuccessful access request (by presenting cards to the reader or entering codes at the PIN reader) is set to more than zero, and alarm is generated when the number of attempts are exceeded. The reader may also be disabled for a time period as set in the illegal disable option below. When set to zero, illegal attempts are not reported.
- **Illegal Disable (min):** When the number of illegal access attempts are exceeded (see illegal attempts above), the reader will not accept any request for the set minutes, or until the door is opened from the other side (via reader or push button). When set to zero, the readers are not disabled.

## 2. Images

Controller	Doors	Latch s...	Latch 1	Latch 2	Monitor	Too lo...	R1 Capt...	R2 Capt...	Booth	Front module ...	Front module 1.2
1 Controller Name	Two	5	Normal closed	Normal closed	None	0	None	None	None	Yes	No
2 zController 02	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
3 zController 03	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
4 zController 04	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
5 zController 05	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
6 zController 06	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
7 zController 07	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
8 zController 08	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
9 zController 09	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
10 zController 10	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
11 zController 11	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
12 zController 12	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
13 zController 13	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
14 zController 14	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
15 zController 15	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
16 zController 16	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No
17 zController 17	Two	5	Normal closed	Normal closed	None	0	None	None	None	No	No

CR351-5 Set-up

CR351/5 Setup

Controller: Controller Name

Booth: None

Doors: Two

APB Reset: Normal

AUX Output: Controlled

Lan Size: 0

	Reader/Door1	Reader/Door2
Reader Enable	Enabled	Enabled
Buzzer	None	None
Card Capture	None	None
Reader LED(s)	3-LED normal	3-LED normal
Reader TG	Rd must_24hr	Rd must_24hr
PIN TG	PIN not enforced	PIN not enforced
Latch Type	Normal closed	Normal closed
Front Module 1	Yes	No
Front Module 1_2	No	No
Latch Click	Normal	
Action Complete	None	
Open too long (sec)	0	
Illegal Attempts	0	
Illegal Disable (min)	0	
Latch Time (sec)	5	

Record: [Previous] [Next] 1 of 70

XRef: 1

OK Cancel Apply