

CR355

Card reader controller
Input and output controller



Softcon Software Control Services (Pty) Ltd

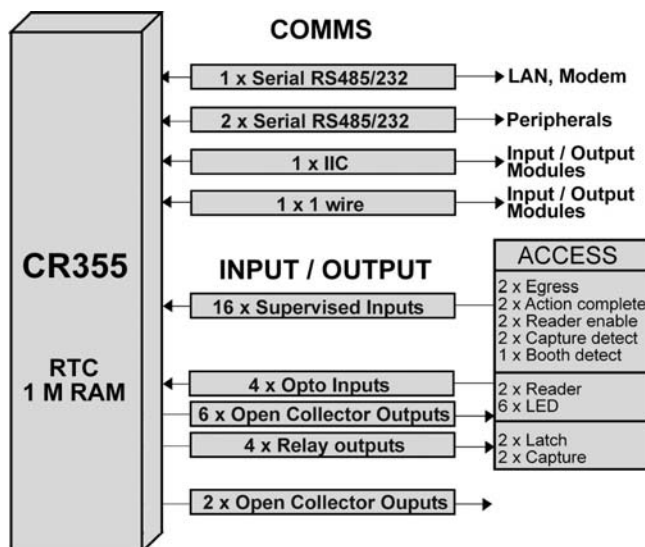
The CR355 is a multi-function, 2-reader controller, complete with backup battery housing and power supply, capable of storing up to 65,000 sequential card numbers and 1,000 transactions off-line. Being a multi-function controller, the CR355 controller is capable of interfacing to biometric, proximity, magnetic stripe, infra-red, bar code and other readers.



Features and benefits

- Microprocessor based
- Stand-alone or system integrated
- Used as a card reader, I/O controller or both
- 2 Card readers - Data/clock, Wiegand, Touch or serial (RS232 or RS485). Reader data lines are opto-isolated inputs. Readers connect directly or via front-end modules (CR372, CR374)
- 2 Pin pads and LCDs – and programmer (via CR374)
- 1 or 2 Door configuration (with door sensing)
- Booth/Mantrap (presence, door, lock monitor)
- Adjustable latch and door open detection timeouts (1 to 65000 seconds)
- 12 configurable outputs - 4 relay, 8 open collector outputs. The 6 reader LED lines can be configured as open collector outputs
- 16 supervised inputs (short / open circuit, closed, open), configured functions
- Interface to external I/O devices via a one-wire bus (5V/data and ground) or an IIC bus
- 65,000 bytes for cards data, resulting in 65,000 card numbers (running numbers with facility code) or 15,000 random numbered cards (10 digits) or 10,000 PIN codes (1 to 5 Digits)
- Batch loading of void and valid cards
- Anti-Pass back (APB), Pass back of cards and Anti-time back
- APB reset via key or push-button
- Vehicle detect provides reader enable and APB linked to vehicle
- Egress override facility
- Card capture
- Multiple illegal entry attempts disable reader
- Time accumulation logging (day / week / month)
- 30 holidays. Time groups with weekday, holiday enable
- Real time calendar clock
- Transactions are time and date stamped
- Optional integrated 7Ahr-battery backup with mains monitor
- Battery backed memory
- Buffer of 1000 transactions off-line
- 15 Access time groups, 8 Access time zones
- 15 Input time groups, 8 Input time zones
- Latching continuously energized, 8 time zones
- Readers enable 8 time zones
- Keypads enable 8 time zones
- Limit on number of cards per group present
- Software watchdog and power dip reset
- Four diagnostic LEDs display
- Fiber optic or modem available as an option
- AC or DC power source
- Audible alarm
- Direct interface to 4 x Asset receivers
- Direct interface to finger print module
- On-board component provides a unique ID

Interface



Input and output capabilities

- 2 Card readers: Data/Clock, Wiegand, Dallas Touch, Barcode, Serial.
- 2 Keypads – via CR374 (3 x 4 Matrix) or serial on data/clock or Wiegand readers interface.
- 16 supervised inputs (0 to 5VDC), 4 opto-isolated inputs (20mA).
- 4 Relay outputs (28 VDC /250 VAC, 3 Amp potential free relay).
- 8 Outputs: Open collection Darlington, 500mA / 50 VDC maximum.
- Serial communication: RS232 (TX, RX, RTS) or RS485 (Data/Data, RTS/RTS).
- Tranzorb protection.
- 2 Peripheral serial communication: RS232 (TX, RX) or RS485 (Data/ Data).
- 1 IIC interface (TTL).
- 1 1-wire interface (TTL).

Cable length and types

- Reader to CR355: 8 Core multi-strand Mylar, 0.2mm², with screen; 50 m maximum (Reader dependent).
- CR355 to CR372, CR374: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 2000m total length.
- CR355 to IIC, 1-wire modules: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 20m total length.
- Printer to CR3555: 3 Core multi-strand Mylar, 0.2mm², with screen; 20m maximum.
- LAN Cable: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 2000m total length.

Housing and dimensions

- Powder-coated steel enclosure with lock (White).
- 255mm (H) x 300mm (W) x 90mm (D).
- 315mm (H) x 300mm (W) x 90mm (D) with integrated UPS.

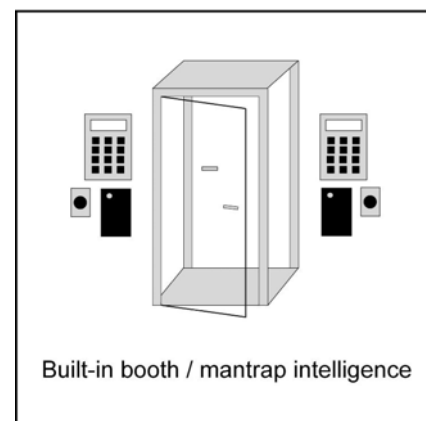
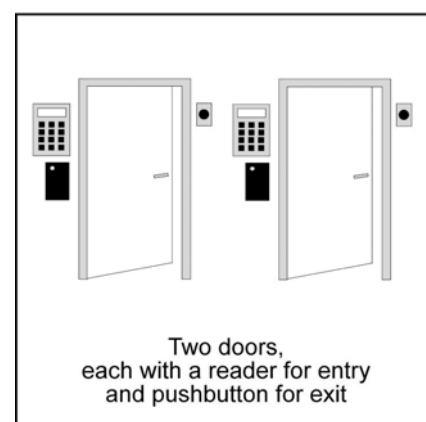
Environmental conditions

- Storage Temperature: 20 to 65 Degrees C. (46 to 150 Degrees F)
Operational Temperature: 0 to 45 Degrees C. (32 to 113 Degrees F)
Humidity: 80% non-condensing.

Peripheral devices

- Readers/Cards: Any reader/card with Data/clock, Wiegand or Dallas touch interface.
- Serial readers may require SW changes.
- Printer: 80 Column with compress format capability (EPSON Compatible).
- Serial (RS232 – 9600 baud, 1 start, 1 stop, no parity).

Installation configuration



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