

CR390

Card reader controller
Input and output controller

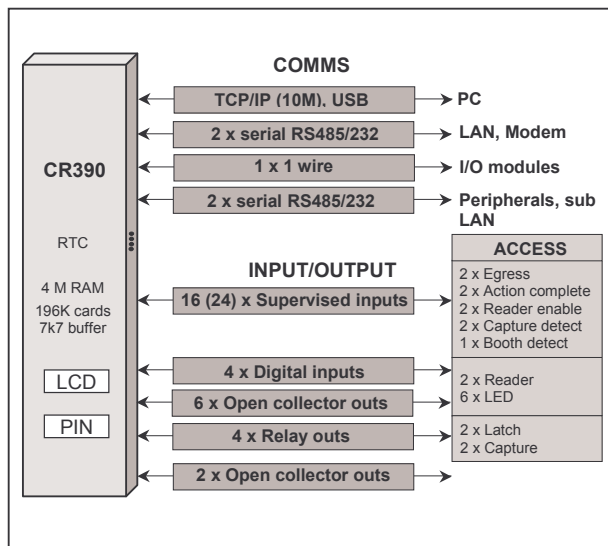


The CR390 is a multi-function, 2-reader controller, complete with backup battery housing and power supply, capable of storing up to 196,000 random card numbers and 7,700 transactions off-line.

Being a multi-function controller, the CR390 controller is capable of interfacing to biometric, proximity, magnetic stripe, infra-red, barcode and smart-prox readers. Comms options are TCP/IP, USB, serial or modem.



Interface



Features and benefits

- Microprocessor based.
- Stand-alone or system integrated.
- Comms options: TCP/IP (10M), USB, serial (RS232 / RS485 / modem / cell-modem).
- Can serve as LAN controller (MUX), with SW keys (dongle).
- Functions as Access, Card reader, Vending, I/O, Cash loader and/or LAN (comms) controller.
- 2 Card readers - Data/clock, Wiegand, Touch or serial (RS232 or RS485). Readers connect directly or via front-end modules (CR375).
- 2 Pin pads and LCDs – and programmer (via CR375). Optional on-board LCD / Pin pad.
- 1 or 2 Door configuration (with door sensing).
- Booth/Mantrap (presence, door, lock monitor).
- Adjustable latch and door open detection timeouts.
- 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. Optional extension to 24. Optional tranzorb protection.
- Interface to external I/O devices via a one-wire bus (5V/data and ground).
- 256k bytes for cards data, resulting in 196k card numbers (running numbers with facility code) or 65k (10 digits), 32k (16digit), 32k PIN codes (1 to 6 Digits).
- Batch loading of void and valid cards.
- Cards Anti-Pass back (APB) / Pass back / Anti-time back.
- APB reset via key or push-button.
- Vehicle detect provides reader enable and vehicle APB.
- 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, mains monitor.
- Battery backed memory.
- Buffer of 1700 to 7700 transactions off-line (depends on card dB set).
- 60 time groups, each 15 with 8 time zones. Set for Access, Input, Latching continuously energized, Readers enable, Keypads enable.
- Limit on number of cards per group present.
- Integrated random search.
- Software watchdog and power dip reset.
- Four diagnostic LEDs display.
- Fiber optic or modem available as an option.
- AC or DC power source.
- Optional Audible alarm.
- Direct interface to 4 x Asset receivers.
- Direct interface to finger print module.
- On-board component provides a unique ID.

Input and output capabilities

- 2 Card readers: Data/Clock, Wiegand, Dallas Touch, Barcode, Serial.
- 2 Keypads – via CR375 (3 x 4 Matrix) or serial on data/clock or Wiegand readers interface.
- 16 (24) supervised inputs (0 to 5VDC). All inputs optional tranzorb protection.
- 4 Relay outputs (28 VDC /250 VAC, 3 Amp potential free relay).
- 8 Outputs: Open collector Darlington, 500mA / 50 VDC maximum.
- Serial communication: RS232 (TX, RX, RTS) or RS485 (Data/Data, RTS/RTS).
- LAN and reader inputs tranzorb protection.
- 2 Peripheral serial communication: RS232 (TX, RX) or RS485 (Data/ Data).
- TCP/IP (10M) and USB comms with PC (optional).
- 1 1-wire interface (TTL).

Cable length and types

- Reader to CR390: 8 Core multi-strand Mylar, 0.2mm², with screen; 50 m maximum (Reader dependent).
- CR390 to CR375: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 2000m total length.
- CR390 to 1-wire modules: 2 Pair twisted multi-strand Mylar, 0.2mm² with screen; 20m total length.
- Printer to CR390: 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.

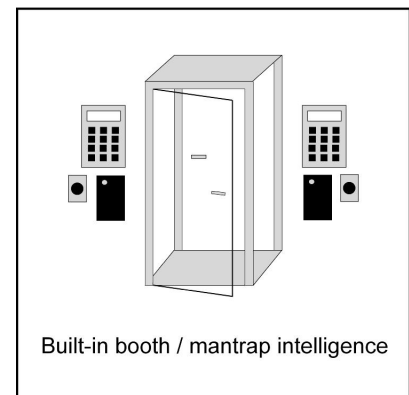
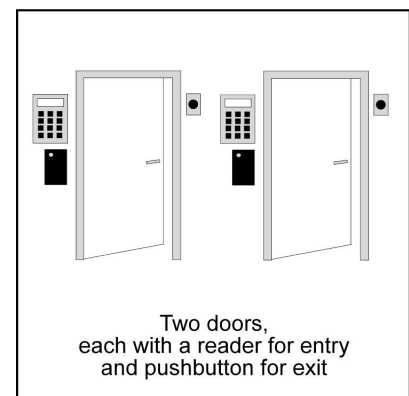
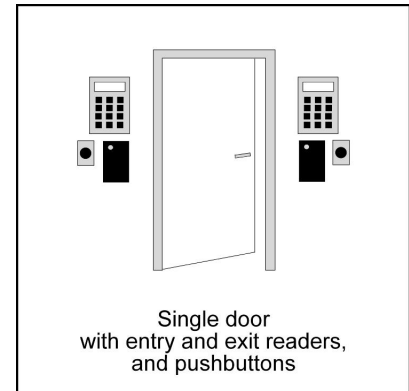
Environmental conditions

- 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 – 19200 baud, 1 start, 1 stop, no parity).

Installation configuration



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