

# Local Controller

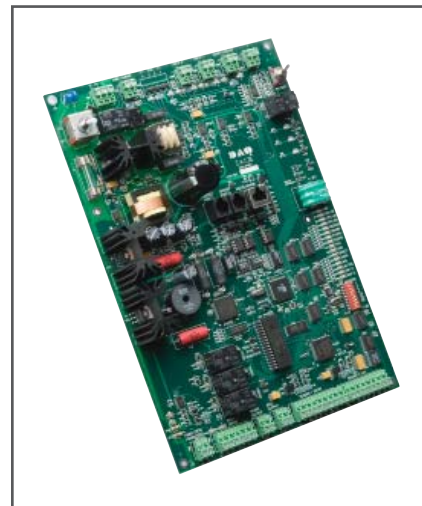
## SECURE PORTAL MANAGEMENT

As part of an integrated StarWatch™ security system, the DAQ Local Controller is capable of providing complete access control facilities for up to two configured doors. Normally used in conjunction with a card reader/keypad to strictly control site entry and a card reader or RTE (Request to Exit) button to manage site exit, the unit supports a variety of door operating modes, including turnstile, man trap, motorized portal, and barrier.

## KEY FEATURES

- Supports the latest card reader formats
- Up to 15 two-door or 31 single-door Local Controllers can interface to a single RADC network controller
- Six tamper-protected inputs for door contact, RTE switch, and alarm input
- Four configurable control output relays for door lock mechanism and other functions
- Diagnostic LED indications for status, tamper, and controls

Relevant system information, such as access card data, ciphers, and event data, is stored locally, enabling efficient coordination of access requests and responses. Reflecting the open design of StarWatch components, the most widely used reader technologies can be interfaced to the Local Controller, including magnetic stripe, proximity, Wiegand, and a variety of biometric devices.



The Local Controller is powered by DAQ's IAC III module, which provides reliable, high-speed processing of card and event data

Local Controllers communicate with associated RADC network controllers over an ArcNET LAN (Local Area Network) via isolated RS485 or a fiber optic interface, with a single RADC supporting up to 31 doors.

Each unit is equipped with battery-backed memory capable of storing up to 2,000 cards and 1,000 events and includes four onboard output relays to control door releases, alarms, entry/exit request bells, or other auxiliary devices. Along with individual tamper protection for each of six input points, the Local Controller also features an enclosure tamper alarm.





# STARWATCH™

## TECHNICAL SPECIFICATIONS

### PROCESSING

- |           |                                                                                                                           |
|-----------|---------------------------------------------------------------------------------------------------------------------------|
| Processor | <ul style="list-style-type: none"><li>• 8051 microcontroller operating at 16MHz with integral ArcNET controller</li></ul> |
| Memory    | <ul style="list-style-type: none"><li>• EPROM 64K</li><li>• SRAM 64K, expandable to 128K</li></ul>                        |

### COMMUNICATIONS

- |               |                                                                                                                                                               |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Interface     | <ul style="list-style-type: none"><li>• On-board ArcNET controller operating at speeds up to 2.5 Mbit per second over isolated RS485 or fiber optic</li></ul> |
| 1 Serial Port | <ul style="list-style-type: none"><li>• RS232, RS485</li></ul>                                                                                                |

### MEASUREMENTS / COMMANDS

- |         |                                                                                                                                                                                                                |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inputs  | <ul style="list-style-type: none"><li>• All inputs are tamper protected</li><li>• Support for door indication, cabinet tamper, request to exit</li><li>• Two spare</li></ul>                                   |
| Outputs | <ul style="list-style-type: none"><li>• All relay contacts are Form C selectable as 1 Form A or 1 Form B, rated for 10A at 125VAC</li><li>• Support for door strike, bell output</li><li>• One spare</li></ul> |
| Design  | <ul style="list-style-type: none"><li>• All inputs and outputs meet requirements of UL 1076 surge protection</li></ul>                                                                                         |

### POWER

- |             |                                                                                                                                                                                                                      |
|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Input       | <ul style="list-style-type: none"><li>• 120/208/250VAC, 60Hz</li><li>• 220VAC, 50Hz</li></ul>                                                                                                                        |
| Output      | <ul style="list-style-type: none"><li>• Temperature compensated float charge capable of supplying 3A of charge to battery</li><li>• 5 and 12V available for card readers and keypads</li></ul>                       |
| Battery     | <ul style="list-style-type: none"><li>• 8 hour battery backup</li><li>• Charger disconnects for 10.5V low voltage disconnect <math>\pm 10\%</math> and 15.7V high voltage disconnect <math>\pm 10\%</math></li></ul> |
| Consumption | <ul style="list-style-type: none"><li>• 18W typical</li></ul>                                                                                                                                                        |

### ENVIRONMENTAL

- |           |                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------|
| Operating | <ul style="list-style-type: none"><li>• -20 to +70°C</li></ul>                                                |
| Storage   | <ul style="list-style-type: none"><li>• -20 to +70°C</li></ul>                                                |
| Humidity  | <ul style="list-style-type: none"><li>• 5 to 95% non-condensing</li></ul>                                     |
| Vibration | <ul style="list-style-type: none"><li>• Meets UL 1076 jarring tests</li></ul>                                 |
| Radiation | <ul style="list-style-type: none"><li>• Certified to FCC part 15, class B</li></ul>                           |
| Packaging | <ul style="list-style-type: none"><li>• Tamper protected NEMA 1 enclosure for interior applications</li></ul> |

©2014 DAQ Electronics, LLC. All rights reserved.

This literature is for guidance only. It does not constitute recommendations, representation, or advice, nor is it part of any contract. Our policy is one of continuous product improvement, and the right is reserved to modify the specifications contained herein without notice. All trademarks and names mentioned in this document are duly acknowledged.

### CONTACT

DAQ Electronics, LLC  
262B Old New Brunswick Road  
Piscataway, NJ 08854 USA

T 732.981.0050 F 732.981.0058  
[www.daq.net](http://www.daq.net)

