

DATA SHEET

DC1000 Door Controller

Provides robust and sophisticated egress point monitoring and locking at the door with optional central management. Supports indoor and outdoor keypads.



Description

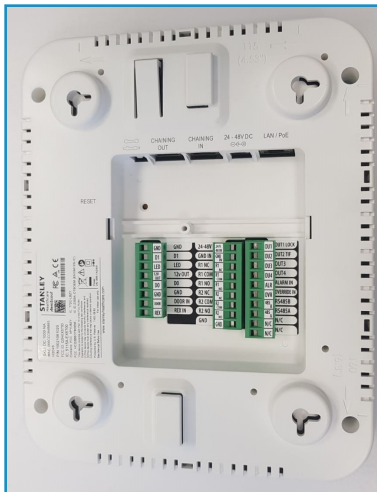
The DC1000 Door Controller is based on the EX5700 Door Controller and provides protection at a door. It is typically used for doors that are always locked, such as the side doors to a building. It can be used as a standalone product at the Door and can also be integrated with Arial.

Key Features

Keypads

Up to four Indoor Keypads and one Outdoor Keypad may be connected to the Controller.

The Controller enables the use of alarm reset and PIN codes/Badge Reader swipe to lock/unlock the door accordingly. The Keypads are powered by the Controller.



Error Reporting

The Controller monitors its own status 24/7 using an internal mechanism. If there is a technical problem with the Controller, it provides a visual indication via its LED and sends the error information to the Indoor Keypad. Errors are reported to Arial as well.

LED Indications

The Controller LED displays indications of its status: Day Mode, Night Mode, Alarm, Override and Error.

Integration with Arial

The Controller sends mode change indications, alarms, events, status and errors to Arial. The communication can be via an embedded Inovonics transmitter or through the network. When connected to the Network, users (staff and visitors) can be centrally managed from Arial.

Controller Relays

The Controller is equipped with two relays. Relay 1 is dedicated to the door maglock control. Relay 2 is activated when there is an alarm condition and is usually connected to an annunciator.

Inputs and Outputs

The Controller has four inputs and four outputs that can be used for various use cases. In addition to door input that reports door status, there are alarm, override and Request for Exit inputs. Two of the outputs can be configured to be activated based on event/status change.

Product Highlights

- **Supports Multiple Keypads** – Four Indoor Keypads and one Outdoor Keypad can be connected.
- **Flexible Installation** – Includes various mounting options.
- **Easy Configuration** – Controller settings configured using a mobile application. Users configuration using Arial.
- **Staff and Visitor Access** – Controls access of staff and visitors by verifying pin codes and/or badges.
- **Built-in Relays** – Built-in relays provided to lock the door and annunciate alarms.
- **Users** – Supports up to 1,000 users (staff and visitors).
- **Badge Support** – Supports the Wiegand 26 card format.
- **Arial Integration** – Sends events to Arial via inovonics or the network. When using the network, the communication between the DC1000 and Arial can be bi-directional. Start/Stop Night and Override Modes and Alarm Reset commands can be sent from Arial to the Controller. As well, staff and visitor records in the Controller can be centrally managed in Arial.
- **Easy Firmware Upgrade** – Controller upgrade using the mobile app or centrally from the Arial system. Keypads are simultaneously upgraded.

Product Specifications			
Part Number	SKU: DC-1000-NA, DC-1000-E		
Dimensions	245 mm x 200 mm x 60 mm (9.6 in. x 7.9 in. x 2.4 in.)		
Weight	780 g (27.5 oz.)		
Housing	Polycarbonate and ABS		
Power	Input voltage 24-48 VDC Maximum power consumption: 24 W. Maximum current consumption: with 24 V – 1 A; with 48 V – 0.5 A		
Network Interface	Ethernet (RJ-45)		
Environmental	Operating temperature: 0 to 50°C (32°F to 122°F) Humidity: 0 to 95%, non-condensing		
Certification	<table border="0"> <tr> <td>Radio: FCC Part 15, sub-part C class B, EN 300-330, EN 300 220, EN 300 328 RSS-247 (Canada)</td> <td>EMC: FCC Part 15 sub-part B EN 301 489, IEC 60601, ICES-003</td> </tr> </table>	Radio: FCC Part 15, sub-part C class B, EN 300-330, EN 300 220, EN 300 328 RSS-247 (Canada)	EMC: FCC Part 15 sub-part B EN 301 489, IEC 60601, ICES-003
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Safety	EN 60950, UL/CSA 60950, IEC 60950, IEC 60601		
Relays (Dry Contacts)	Two: 15 VDC, 2 A, 30 W; 24 VDC, 1.25 A, 30 W; 30 VDC, 1 A, 30 W; NO (Normally Open) or NC (Normally Closed) Class 2		
Outputs	Four: Secure Door Lock, TIF (not used), programmable, programmable. Open drain outputs, up to 100 mA @ 12V Note: The open drain outputs switch power provided from an external source.		
Inputs	Four: Alarm, Override, Door Status, REX. To activate the input, it must be shorted to GND. Max. cable resistance – 5 Ohm Up to 10 m cable (at least 26 AWG)		
RS485A, RS485B	Indoor Keypad interface, up to 10 m cable (at least 26 AWG)		
D0, D1	Wiegand Keypad interface, up to 10 m cable (at least 26 AWG)		



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