



### INTRODUCTION

**DK-2836** is a self-contained two output relay, vandal resistant and weatherproof keypad. It combines digital keypad and proximity EM card reader in one unit.



The keypad has been designed for full feature stand alone access control applications. It is expandable to work with an optional decoder (DA-2800 or DA-2801) for high security split-decoded operation. It is also compatible with the auxiliary card reader (AR-2802) and the auxiliary keypad readers (AR-2806, AR-2807 and AR-2809) for upgrading a stand alone or split-decoded system to multi-station operation.

The keypad is ideally for door strike and alarm arm-disarm controls. It is also a programmable industrial timer (from 1 second to over 24 hours) for automatic operator system.

Two versions are available for DK-2836. They are denoted with a suffix letter "A" & "B"

#### **DK-2836A (Standard Version):**

**Output Relay 1** – 2A Rating N.C. or N.O. Contacts for Door Lock Actuation Control

**Output Relay 2** – 2A Rating N.C. or N.O. Contacts for Auxiliary Device Control

#### **DK-2836B (Door Bell Button Version):**

**Output Relay 1** – 2A Rating N.C. or N.O. Contacts for Door Lock Actuation Control

**Output Relay 2** – 2A Rating N.C. or N.O. Contacts for External Door Bell Actuation Control

⊛ Standard Version

⊛ Bell Button Version

### FEATURES

- Dual Relay Output Full Feature Digital Keypad for Door Lock and Equipment Controls
- 12-24V DC Auto Adjusted Wide Operation Voltage Range
- Built-in Real-Time-Clock Controls The Start and Stop Times in Daily Operation
- Stand-alone, Split-decoded and Multi-station Tri-Tech Operations
- Compatible with The Auxiliary Reader, Auxiliary Keypad and Split-decoder for System Expansion with Single Wire Connection of Their Common Data I/O Bus
- User Code, EM Card and EM card + User Code Concurrent Operations
- Compatible with 125 Khz Manchester 64-bit EM4100 & EM4200 EM Cards and Keyfobs
- 2A/24VDC Contact Rating Form C Relay for Output 1 and Output 2
- Compatible with Fail-safe or Fail-secure Electric Door Lock
- Built-in Control Logic Circuit for High Security Dual Door Inter-lock System
- Timing Re-lock or Auto Re-lock for The Door After Entry Prevents "Tail-gate" Follower
- Door Forced Open Warning and Door Propped-up Warning
- Maximum 1,000 Users for Controlling Output 1 and 100 Users for Outputs 2
- Multi-task Super User Code for Inhibiting (Refuse Access), Overriding Door Lock (Keep Door Open); and Operating The Outputs at Any Time and under Any Condition for Safety
- Duress Code for Door Opening and at The Same Time Reporting The Event of Duress
- 50 Visitor Codes for Temporary Workers and Visitors, Which Expire after Use or The Programmable Time of 1-99 Hours
- Three Programming Options for System Safety Lock-up after Successive False Code Entry
- Outputs Are Configurable with 1-99999 Seconds Auto Reset Mode or Start / Stop Mode.
- Auto or Manual User Code Entry Mode for User Convenience And Security Enhancement
- Pacifier Tone And Door Open Announcer Can Be OFF for Silent Environment
- Standby Flashing LED Indicator Can Be OFF for People Do Not Like Flashing LED at Night
- Four Egress Delay and Warning Options for User Convenience and Security Enhancement
- Alarm Output for Triggering Optional Alarm Equipment
- Built-in Tamper Switch with N.C. Dry Contact
- Standard and Door Bell Button (Using Output 2 as Bell Actuation Contact) Versions Available
- Vandal Resistant Weatherproof Keypad with Back-lit Metal Key Buttons
- Die-Cast Zinc Alloy Protection Bracket for Surface Mount on Wall compatible with U.S. and European Gang Box.

## SPECIFICATIONS

- **Operating Voltage:**  
12V-24V DC, Auto adjusting
- **Operating Current:**  
62mA (quiescent) to 130mA@12VDC  
30mA (quiescent) to 61mA@24VDC
- **Storage and Operation Temperature:**  
-20 C to +70 C
- **Storage and Operation Humidity:**  
5-95% relative humidity non-condensing
- **Working Environment & Ingress Protection:**  
All weather, IP-65
- **Number of Users:**  
Output 1 – 1,000 (Codes and/or Cards) + 50 Duress Codes  
Output 2 – 100 (Codes and/or Cards) + 10 Duress Codes (DK-2836A)
- **Proximity Card:**  
Standard EM Card or Keyfob, 125Khz, Manchester 64-bit
- **Number of Visitor Codes:**  
50, programmable for one time or with time limit
- **Timings for Code Entry and Card Reading:**  
10 seconds waiting for next digit entry  
30 seconds waiting for code entry after card reading
- **The Timers:**  
1-99,999 Seconds (Over 24 Hours possible) Independent Programmable Timers for O/P 1 & 2
- **Egress Button:**  
Programmable for Instant, Delay with Warning Warning+Alarm  
Momentary or Holding Contact for Exit Delay
- **Input Sensing Terminals:**  
a) Door position, b) Egress, c) O/P 1 inhibit
- **Output Control Terminals:**  
Transistor Open Collector 24VDC/100mA sink Max for the following outputs  
a) Duress, b) Alarm c) Inter-lock
- **Output Contact Ratings:**  
Output Relay 1 – N.C. or N.O. dry contacts, 2A/24VDC Max.  
Output Relay 2 – N.C. or N.O. dry contacts, 2A/24VDC Max.  
Tamper Switch – N.C. dry contact, 50mA/24VDC Max.
- **Dimensions:**  
144(H) X 78(W) X 29/32(D)mm
- **Weight:**  
380g net
- **Housing:**  
Die-Cast Zinc Alloy Protection Bracket
- **Faceplate Material:**  
Stainless Steel

Specifications are subject to change for modification without notice

### CONNECTION TERMINALS

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

#### Ordering Part Number:

DK-2836A (Standard Version)

DK-2836B (Bell Button Version)