



## **KEYPADS & STAND-ALONE ACCESS CONTROL**



**ACCESS CONTROL SOLUTIONS FOR A CHANGING WORLD™**



Here are the major reasons the Door♦Gard™ line from International Electronics is the recognized leader in keypad and stand-alone access control:

### Unmatched breadth of product

- Keypad, proximity, magnetic stripe
- Surface, flush, mullion mounting
- Medium and heavy duty
- Indoor, outdoor, and harsh environment

### Learn one, learn them all!

- Uniform programming
- Uniform wiring

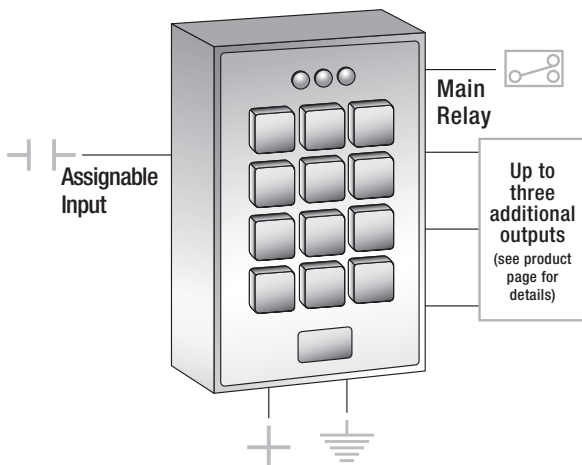
### Advanced technology

- Automatic voltage sensing
- 10 to 30 VDC
- 12 to 24 VAC

### UL listed models

## 212 FUNCTION

The 212 keypads are designed for basic access control or code control for up to four individual devices (model dependent). These keypads are the perfect choice for controlling electric locks or magnetic locks, security systems, elevator control, gate controls, or other types of equipment requiring on/off or momentary control inputs.

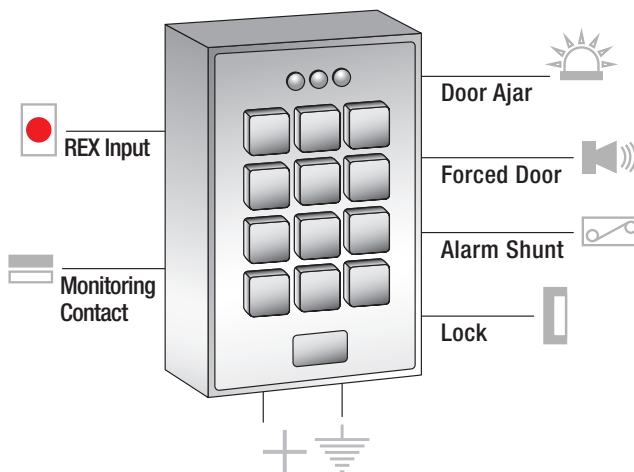


### FEATURES

- 120 Users
- Input Trigger for Request to Exit or other open circuit contact
- Up to 4 independent relays outputs (model dependent)
- Each output is assignable by code
- Keypad programmable

## 232 FUNCTION

The 232 keypads are designed to meet most residential, commercial, and industrial single door access control requirements. Each 232 keypad provides two inputs and four outputs, factory set access control.

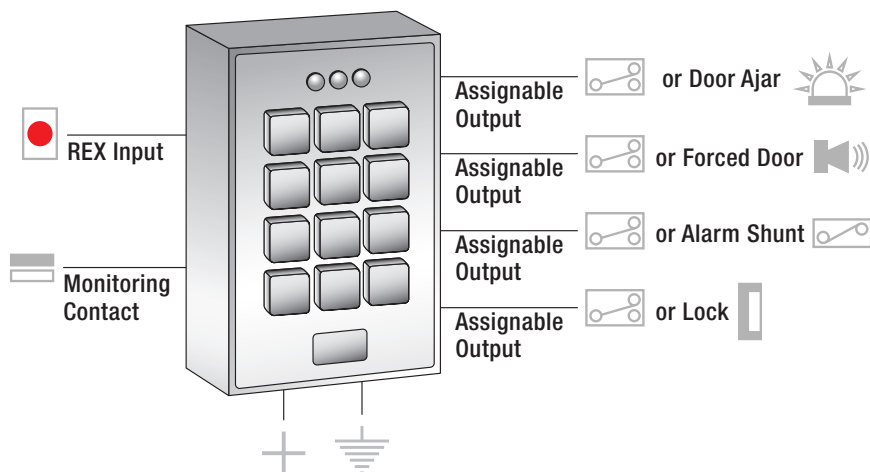


### FEATURES

- 120 users
- Requested to Exit Input
- Door Monitoring Input
- Relay Outputs
  - Lock Release
  - Door Forced
  - Door Propped
  - Alarm Shunt
- Keypad programmable

## 242 FUNCTION

The 242 combines the ease of the 232 with the flexibility of the 212. It's four pre-programmed access control outputs can be reconfigured to operate in any combination by code. 242 function keypads can also be easily defaulted to perform single door access function. This automatically transforms the inputs and outputs to 232 functionality. Ease of use and flexibility are optimized with 242 function keypads.

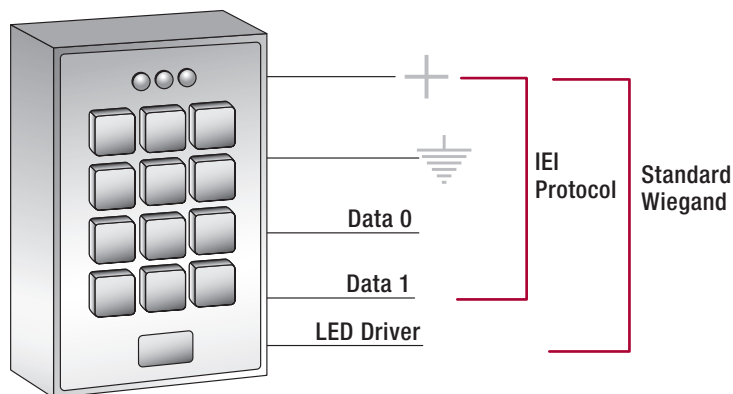


### FEATURES

- 120 Users
- Industry's most flexible keypads
- Set-up for single door access control
- Request to exit and Door Monitor inputs
- Four (4) independently programmable outputs [option]
- All outputs assignable by code [option]
- Outputs programmable for latched or timed operation [option]
- Keypad programmable

## WIEGAND SERIES [SSW-MODELS]

IEI Wiegand Series Keypad offers multiple keypad styles that support both IEI IM proprietary reader communication protocol for HubMax™ and MiniMax™ panels and standard Wiegand communication protocol.



### FEATURES

- Works with most manufacturers' systems
- 4 wire connection for IEI IM protocol for HubMax and MiniMax
- 5 wire connection for standard Wiegand protocol
- User configurable to conform to multiple Wiegand formats with even parity

# DOOR-GARD™ STAND-ALONE ACCESS CONTROL



212i  
232i

## i Style

### Flush Mount Indoor Keypad

- Single gang design stainless steel faceplate
- Visual keypass indication
- 10-30 VDC; 12-24 VAC – auto adjusting
- Optional 293 relay board converts 3 voltage outputs to SPDT relays
- Optional printer interface
- 120 users
- Surface mount option using 285 or 286 backbox – see Accessories




212w 232w

## w Style

### Flush Mount Weather Resistant Keypad

- Single gang design
- Audible beep
- 212 style – 1 SPDT 8 amp relay and three 50mA negative voltage outputs
- Indoor/outdoor
- 10-30 VDC; 12-24 VAC – auto adjusting
- Optional printer interface
- 120 users
- Surface mount option using 285 or 286 backbox – see Accessories



212e 242e   
SSWe

## e Style

### Flush Mount Backlit Keypad

- Single gang design
- Backlit hardened keys
- Sounder
- Weather Resistant – indoor/outdoor
- UL 294 Access Control listed
- Five year warranty
- 212 style – 1 SPDT 2 amp relay
- 4.5" x 2.75" x 0.60"
- 10-30 VDC; 12-24 VAC – auto adjusting
- 120 users
- Surface mount option using 285 or 286 backbox – see Accessories



212eM 242eM  
SSW-eM

## eM Style

### Flush Mount Durable Metal Keypad

- Single gang design
- Metal Trim & Braille Keys
- Weather resistant – indoor/outdoor
- Sounder
- 212 style – 1 SPDT 2 amp relay
- Five year warranty
- 10-30 VDC; 12-24 VAC – auto adjusting
- 120 users
- Surface mount option using 285 or 286 backbox – see Accessories



212iL 212iLW  
SSW-iLW

## iL Style/iLW Style

### Architectural Backlit Keypad

- Flush mount, single gang design
- Backlit hardened keys
- Sounder
- Weather resistant outdoor version available – iLW
- Main relay – SPDT, 2 amp
- 3.47" x 5.135" x .71"
- 10-30 VDC; 12-24 VAC – auto adjusting
- 120 users



232FX  
SSW-FX

## FX Style

### Harsh Environment Keypad

- Vandal resistant metal case
- Fits single gang box
- Touch sensitive flat keys
- Weatherproof
- No moving parts
- Sounder
- 5-12 VDC – Jumper selectable
- 120 users



212iLM-al 212iLM-bz  
232iLM-al 232iLM-bz  
SSWiLM-al SSWiLM-bz

## iLM Style

### Mullion Mount Backlit Keypad

- Surface mount – fits on door mullion
- Backlit hardened keys
- Sounder
- Available in Bronze or Aluminum
- Door bell relay
- Weather resistant
- 212 style – 1 SPDT 5 amp relay
- 12/24 volts AC/DC
- 120 users



212r  
232r  
KP500r-WH

## r Style

### Ruggedized Keypad

- Weatherproof, self contained metal housing
- Vandal resistant
- One piece housing suitable for wall, post, or gooseneck mounting
- Durable metal Braille keys
- 212 style – 4 on board relays
- Lighting kit available as an option
- 10-30 VDC; 12-24 VAC – auto adjusting
- Optional printer interface
- 120 users



212se 232se  
272WP

## se Style

### Sealed Environmental Keypad

- Surface mount
- 212 style – 4 SPDT relays
- Vandal resistant
- Metal Braille keys
- Weatherproof, self-contained metal housing
- 4.5" x 3.0" x 1.55"
- 10-30 VDC; 12-24 VAC – auto adjusting
- Optional printer interface
- 120 users



## SINGLE DOOR CARD READER SYSTEMS



prox.pad

### prox.pad™ Single Door Keypad/Proximity Reader Access System

- Integrated door control, keypad and reader
- 2000 users / 1000 event audit trail
- Weather resistant
- Compatible with HID proximity cards from 26 to 37 bit
- Glass mount kit Included
- Wiegand output – 26 to 37 bit proximity; 26 bit keypad
- 5.25" x 2.75" x 1.375"
- 12 VDC



233  
CR500w

### 233 Card Reader System

- Narrow style suitable for door mullions
- Two-piece design with secure electronics
- Weatherproof metal housing
- Compatible with any ABA standard track 2 encoded magnetic stripe card
- Main relay – 8 amp SPDT
- 3 - 1 amp SPDT relays – alarm shunt, forced door, propped door



BR-1000

### BioRead™ BR-1000 Stand-Alone Fingerprint Access System

- Finger only – no card required
- No PC or software needed
- Separate door controller for increased security
- 90 Templates
- Add/delete with hand-held programmer [BR-1250]
- Authenticate in less than 2 seconds
- 12 VDC needed – reader and controller
- Option for Wiegand output

## LS SERIES™ ACCESS CONTROL LOCKSETS



-  Grade 1 Locksets
- Non-volatile eeprom memory allows in-shop programming
- One non-handed unit for indoor and outdoor application
- Wire raceway provides clean installation and protects wires inside door
- Programs the same as all IEL products
- Two stage low battery alert assures entry
- Propped door and forced door alerts when used with a standard magnetic switch
- Request to exit allows door to be unlocked remotely
- Four standard AA batteries provide up to 150,000 operations

#### LS-1

- Keypad programmable with Master Code
- 120 individual user codes including Master, Supervisor and Emergency

#### Available in:

- Cylindrical
- Mortise
- Exit
- Mortise w/ Deadbolt

## ALARM CONTROL



210

### 210 Keyswitch Replacement Keypad

- Direct hardware keyswitch replacement
- 2 User Codes
- SPDT Relay – 2 sec. output
- Keypad programmable
- 12 VDC operation
- 2.75" x 4.5" x 2.5"



240

### 240 Battery Operated Keyswitch Replacement Keypad

- Direct keyswitch replacement – no additional wires
- 16 User Codes
- SPDT Relay – 2 sec. output
- Keypad programmable
- 9 Volt battery operated
- 20,000 operations standard



262b

### 262b Control Partitioner Intrusion Keypad

- Self Contained 2 zone control
- Power/Status/Armed LED's
- E/E Delay – 1-980 sec.
- Relay Output – 10-900 sec.
- Alarm Relay – 1 amp SPDT
- 10-16 VDC – less than 25mA
- Siren Driver built in
- 2.75" x 4.5" x 1.5"

## INDUSTRIAL MACHINERY CONTROL



### PowerKey AC

- Control access/use to power equipment
- "Lockout" unsafe equipment
- Programmable timer – 10-900 sec.
- 99 User Codes
- UL Listed



### PowerKey 2600

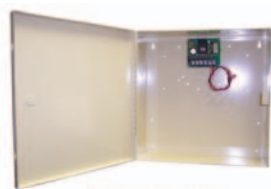
- Control Operator use of Vehicles
- 250 Operator Codes
- Audit Trail
- Seatswitch input shutdown feature
- Keypad Programmable
- Models suit all gas/diesel and electric vehicles

# ACCESSORIES

## Access Systems Power Supplies

The IEI **PowerGard™** Power Supplies are designed and manufactured to meet the demands of access control installations today. Available in cabinet, board level, or plug in configurations, we have the form factor to meet your needs.

- High performance at an economical price
- Filtered and regulated
- Self resetting smartfuse protection
- Fast battery charging
- Programmable 12 or 24 VDC operation
- 1.3 Amp and 2.5 Amp versions



### PowerGard™ Power Supplies

- PG 1224-1-C** 12 or 24 volt DC, 1.3 amp supply in cabinet
- PG-1224-3-C** 12 or 24 volt DC, 2.5 amp supply in cabinet



- PG 1224-1** 12 or 24 volt DC, 1.3 amp supply – board only
  - PG-1224-3** 12 or 24 volt DC, 2.5 amp supply – board only
- For your convenience the PG-1224-3 installs onto stand offs in the HubMax™II cabinet.

### Transformer Requirements for PowerGard™ Power Supplies

#### 1.3 Amp Versions

For 12 VDC operation use separately purchased 16.5 VAC; 40 VA transformer  
For 24 VDC operation use separately purchased 24 VAC; 40 VA transformer

#### 2.5 Amp Versions

For 12 VDC operation use separately purchased 16.5 VAC; 40 VA transformer  
For 24 VDC operation use separately purchased 24 VAC; 60 VA transformer

## Tampered Power Supplies

Filtered and regulated 12VDC, 1.2 amp with tamper module to protect against bypass due to circuit shorting. Switchable AC/DC with built-in surge suppression for lock hardware, auto resetting poly fuses.



- PWR/TMPR12P**  
12VDC, 1.2 amp supply in cabinet with transformer



- PWR/TMPR12**  
12VDC, 1.2 amp supply – board only – Requires 16.5 VAC transformer



### IEI PIP's

#### Plug-In Power Supplies

- Transient Protection
- Auto resetting poly fuses
- Grounded
- LED power indicator

PIP 12VDC	12 VDC	1,000, mA
PIP 24VDC	24 VDC	1,000 mA
PIP 12VAC	12 VAC	40 VA
PIP 16.5VAC	16.5 VAC	40 VA
PIP 24VAC	24 VAC	40 VA



CT-70

#### CT-70 Multi-Function Timer

- Operating voltage: 6VDC or 12VDC
- 1 to 60 seconds or 1 to 30 minutes
- Optional reset switch

- Three operational modes:  
Mode 1 - When voltage is applied, the timer relay will energize at the end of time delay until voltage is removed  
Mode 2 - The timer relay will energize when voltage is first applied and drop out at the end of time delay  
Mode 3 - The timer relay will pulse on and off at a pulse rate set by potentiometer

## ACCESSORIES

### Boxes & Security Screws



280

281

285

286

- 280** Weatherproof Surface Mount Backbox, cast aluminum, 1/2" EMT nipple plugs supplied, for indoor or outdoor use, gray color, 2.75" w x 4.5" h x 2" d
- 281** Flush Mount Single Gang Backbox for indoor and weather resistant styles. Plastic, w/drywall mounting tabs – screw actuated
- 285** Black polycarbonate back box for w, e, eM, & i style keypads. Four (4) removable wire mold knockouts and neoprene gasket
- 286** Chrome plated polycarbonate back box for w, e, eM, & i style keypads. Four (4) removable wire mold knockouts and neoprene gasket
- 282** Magnetic Contact – Tamper Switch, 6" lead length, double sided tape mounting, 5 Amp contact rating, 2" x .25" x .75"
- 289** Tamperproof Screws (10 psc.)
- 270** Tamper Socket (1/4" drive) for 289 tamper screws
- 288** Tamperproof Screws. Allen with pin (20 psc.)
- 271** Tamper Socket for Allen with pin (1/4" drive)

### Relays



283

284

293

- 293** Three Relay Plug-On Board with Form C, 1 Amp relays. Converts transistor outputs to dry contacts
- 284** Leaded Accessory Relay
- 283** Security Module responds to tamper switch (included) and cuts all connections between Door•Gard™ and the door lock. Wires can't be crossed to unlock door. Must be reset from inside the protected area.

### Infrared Printer - IR Print #0291000



**Connection:** Invisible infrared beam links printer and prox.pad™

**Paper:** Prints black, 2.25 in. x 80 ft. per roll (included)

**Power:** Four AA alkaline batteries (included) or optional AC adapter

### Cards & Tokens



- ProxCards II** ProxCards II (lots of 25 only) Cards for ProxPoint Readers
- ISOProx** ISOProx Card (lots of 25 only) Cards for ProxPoint Readers
- DuoProx** DuoProx Card (lots of 25 only) Cards for ProxPoint Readers
- ProxKey** ProxKey Key Fob (lots of 25 only) Key Fob for ProxPoint Readers
- MagCrd-25** Magnetic Striped Cards – 25 Pack
- MagCrd-100** Magnetic Striped Cards – 100 Pack
- MagHico-25** High Coercivity Magnetic Striped Cards – 25 Pack
- MagHico-100** High Coercivity Magnetic Striped Cards – 100 Pack

### Request to Exit



EZ-Rex

- Virtually infinite lifetime – switch life greater than 20,000,000 operations
- Totally weatherproof
- Solid state/No moving parts
- No mounting box required
- Operating force: 6 to 12 oz.

### Ruggedized Lighting Kit



R-Lighting

Lighting kit for use with R Style keypads

**International Electronics, Inc. (IEI)** designs, manufactures and markets electronic access control products for the security, material handling and industrial markets. IEI's products include Keypad and Stand Alone Systems, Access Control Locksets, Network Based Access Control, Browser Managed Access Control, Mobile Fleet Access Control and Fleet Management Systems. It markets these products to the leading industry distribution, installation and vertical end-user companies in the U.S., as well as Europe, Asia, Canada, South America and Australia.



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