

Single Door Controller

SK10
SK100

SK100-CN
SK100-PRO



SK100



SK100-CN



SK10



SK100-PRO

Features

- ◆ Single door controller, control IN/OUT of one door
- ◆ Storage Capacity up to 10,000 cards and 10,000 transactions
- ◆ Standalone Operation or Communicate with PC via RS-232, RS-485 or TCP/IP (via TCP/IP converter)
- ◆ Running on 16 bit CPU at 8MHz
- ◆ Support "Toggle Mode", mainly use for controlling on/off of large-scale electrical equipment
- ◆ Support Anti-passback
- ◆ Support Anti-tailgating
- ◆ Support Arm/Disarm function
- ◆ Programmable Time zone / Pin Access Control
- ◆ Support external serial port printer
- ◆ Support any 3rd party external Wiegand Reader or Keypad Reader
- ◆ Recoverable up to the latest 10,000 transaction if back end system failure
- ◆ Support build-in reader module such as EM, Mifare, HID, TI, Type B and CPU card
- ◆ CE Certified

Functional List

Function	SK10	SK100	SK100-CN	SK100-PRO
Card Open Door	Present card to external or build-in wiegand reader			
Card+PIN Open Door	(1) Use with Controller with build-in reader			
Security PIN Open Door	(2) Connect to external wiegand keypad reader: SK-10K, SK100K-CN			
Card ID Open Door	(3) Open door either by enter Security PIN or Card ID			
	(4) Open Door by Card + Pin: 4 digits PIN; By Security PIN: 8 digits PIN			
Connect External Wiegand Reader	Support any 26/ 34 bit wiegand card reader and free wiegand card reader			
Free Wiegand Setting	Yes. Able to configure battery low-voltage alarm when using long range reader			
Connect External Keypad Reader	(1) HID wiegand keypad reader			
	(2) SK10K/SK100K-CN keypad reader			
Connect External SK Fingerprint Reader	Yes, via wiegand port			
Connection to PC	Via Rs232, Rs485 or TCP/IP (require TCP/IP converter)			
Exit by Push Button	Yes			
Door Force Open Alarm	Yes			
Door Held Open Alarm	1-255 seconds. Factory default is 5 seconds. Alarm output can be disable			
Add/Delete Card in standalone mode	Yes			
Multi-card Verification	Yes, up to 8 cards			
Keypad Open Door	Through controller keypad. Factory default is "No".			
Wrong PIN Control	During Card + PIN operation, if PIN enter 3 times incorrectly will disable the controller for 30 seconds			
Same Card Delay	0-255 seconds. Factory default is 0 second.			
Time Zone Control	32 set of time zone			
Holiday Control	Yes			
Lost/Inhabit Card	Yes			
Card Start and Expiry Date Validation	Yes			
Door Auto Unlock by Timezone	Yes			
Connect External Printer	Yes			
Connect External LED	No	3 rd Serial Port	No	No
Dynamic Storage Adjustment	No	Yes	No	No
Anti-passback	Yes (Local or Global). Able to reset manually or by time			
Timing Event (Alarm Clock)	Yes			
Alarm arming/disarm	Yes			
Anti Tailgating	Yes			
Time Error Correction	Yes			
Card Number Output Byte	1-4 bytes. Default is 4 bytes			
Card Number Display Format	HEX, DEC, ABA, User Code. Default is DEC			
Communication Monitoring	Yes			
Internal Buzzer Alarm	Able to setup trigger alarm buzzer when door force open or door held open alarm. Factory default is "No".			
PIN Control	Able to setup Exit without PIN Control. Factory default is Yes.			
Timezone Control	Able to set to Exit without Timezone Control. Factory default is Yes.			
Tamper Alarm	Build-in tamper switch. If device is opened, controller will send an alarm record to back end PC.			
Door Left Open Restore transaction	Yes			
485 Comm Terminating Resistor	Via jumper setting			

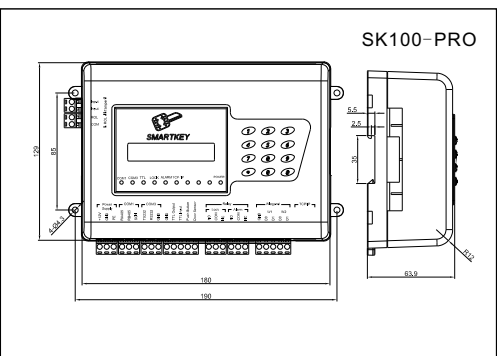
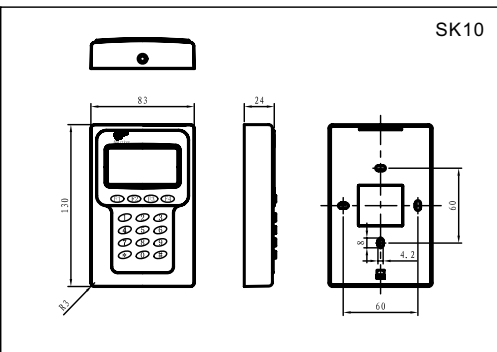
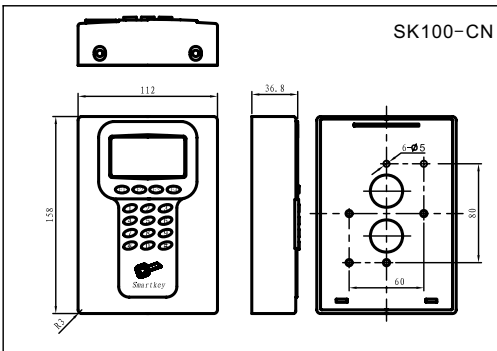
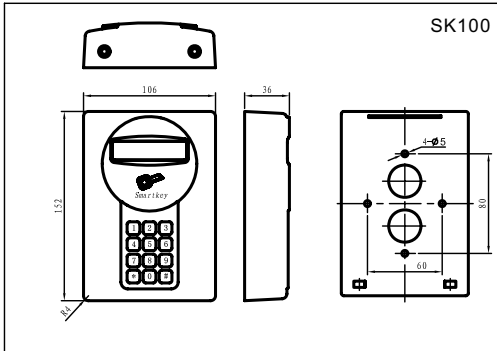
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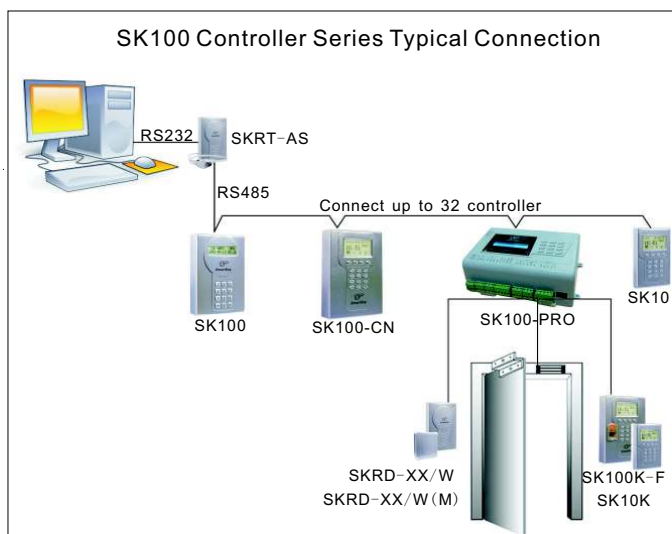
Dimension (Unit: mm)



Technical Specification

Parameter	SK10	SK100	SK100-CN	SK100-PRO
CPU	16 bits, 8MHz			
RAM	512K Bytes			
Flash	256K Bytes			
Number of Door	1			
Wiegand Reader Connect	2			
TTL Alarm Input	1			
Door Sensor	1			
Exit Push button	1			
TTL Alarm Output	1, 5V/300mA			
Alarm Relay Output	1, 12V/1A	1, 12V/10A	1, 12V/1A	1, 12V/10A
Door Relay Output	1, 12V/1A	1, 12V/10A	1, 12V/1A	1, 12V/10A
Tamper Switch	1			
Card Capacity	10,000			
Record Capacity	10,000			
Serial COM Port	2, 1x485 connect to PC, 1x232 connect to serial printer or PC			
Baud Rate	1200~19200 bps. Default is 19200 bps			
Controller ID Setting	001~255. Default is 1			
Data Backup Battery	Rechargeable. Without main power able to save the data up to 6 months			
Keypad	4x4, Blue Backlight	3x4, Green Backlight	4x4, Blue Backlight	3x4, Green Backlight
LCD	128x64 dots Graphical, White Backlight, Chinese, English	16x2 line, Blue Backlight, English Menu	128x64 dots Graphical, White Backlight, Chinese, English	16x2 line, Blue Backlight, English Menu
Buzzer	1, audible sound able to distinguish valid and invalid card			
Power Supply	9~30VDC, 300mA			
Operating Temperature	-10~50°C			
Dimension	130 x 83 x 24 mm	152 x 106 x 36 mm	158 x 112 x 37 mm	129 x 190 x 64 mm
Casing	ABS flame-resistant, silver color			
Mounting	Wall mount	Wall mount	Wall mount	Din rail mount

SK100 Controller Series Typical Connection



Model Selection

SK10 Series

Model	Description	Remark
SK10	Graphical display single door controller	Connect with PC
SK10E	Single door controller, build-in EM Card reader, range > 5cm	
SK10M	Single door controller, build-in Mifare Card reader, range > 2.5cm	
SK10H	Single door controller, build-in HID Card reader, range > 2.5cm	
SK10TI	Single door controller, build-in ISO15693 (TI) Card reader, range > 2.5cm	
SK10B	Single door controller, build-in Type B ISO14443B Card reader, range > 2.5cm	
SK10C	Single door controller, build-in CPU Card reader, range > 2.5cm	

* For controller without PC connection, label with "A" on the above model. E.g. SK10A, SK10EA

SK100 Series

Model	Description	Remark
SK100	Single door controller	Connect with PC
SK100E	Single door controller, build-in EM Card reader, range > 10cm	
SK100M	Single door controller, build-in Mifare Card reader, range > 2.5cm	
SK100H	Single door controller, build-in HID Card reader, range > 4cm	

* For controller without PC connection, label with "A" on the above model. E.g. SK100A, SK100EA

SK100-CN Series

Model	Description	Remark
SK100-CN	Graphical display single door controller	Connect with PC
SK100E-CN	Single door controller, build-in EM Card reader, range > 5cm	
SK100M-CN	Single door controller, build-in Mifare Card reader, range > 2.5cm	
SK100H-CN	Single door controller, build-in HID Card reader, range > 2.5cm	
SK100TI-CN	Single door controller, build-in ISO15693 (TI) Card reader, range > 2.5cm	
SK100B-CN	Single door controller, build-in Type B ISO14443B Card reader, range > 2.5cm	
SK100C-CN	Single door controller, build-in CPU Card reader, range > 2.5cm	

* For controller without PC connection, label with "A" on the above model. E.g. SK100A-CN, SK10EA-CN

SK100-PRO Series

Model	Description	Remark
SK100-PRO	Single door controller	Connect with PC

* For controller without PC connection, label with "A" on the above model. E.g. SK100A-PRO