



# Keypad

## INSTALLATION INSTRUCTIONS

June 2008



*Cutting edge simplicity*

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# Introduction

Cansec's Wiegand Emulating Keypad emulates standard 26-bit or Cansec 37-bit Wiegand format by allowing users to use an existing access user ID as a Personal Identification Number (PIN). A site code can be programmed into the keypad via the number pad.

There are two models of Keypad: Heavy Duty (WEK200) and Light Duty (WEK200L). The WEK200 faceplate and keys are made of stainless steel to withstand harsh use. The WEK200L faceplate and keys are made of durable plastic - a more cost effective option for lighter uses. Both keypads are sealed against dust and resistant against water damage.

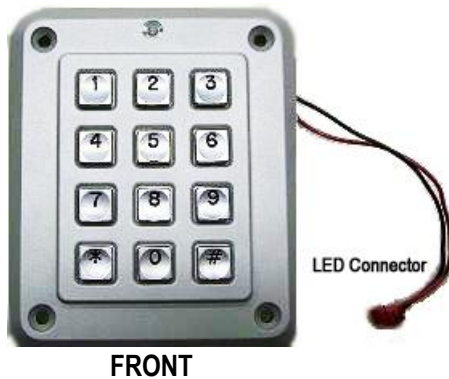
# Specifications

Warranty.....	one year
Operating Voltage .....	5 to 14 VDC
Current Draw .....	50 mA max
Output Format.....	26-bit & Cansec 37-bit Wiegand
Operating Temperature	
WEK200: .....	-40°C to 70°C (-40 °F to 158 °F)
WEK200L: .....	-10°C to 70°C (14°F to 158°F)
Dimensions .....	99.5 mm (w) x 118.5 mm (h) x 8 mm (d) [ (3.92 in (w) x 4.67in (h) x 0.31in (d) ]
Weight	
WEK200: .....	approx. 450 g (15.9 oz)
WEK200L: .....	approx. 88 g (3.1 oz)
Colour	
WEK200: .....	silver (stainless steel)
WEK200L: .....	black (plastic)
Casing	
WEK200: .....	chromed die-cast zinc
WEK200L: .....	general-service polymer
Mounting .....	single-gang electrical box
Environment .....	indoor; outdoor
Rated IP	
(65) WEK200: .....	water/dust-sealed (when mounted to suitable enclosure)
(54) WEK200L: .....	water/dust-sealed (when mounted to suitable enclosure)
LED .....	bi-colour standard (red, green)
Beeper .....	standard
Cable .....	7 conductors, 22 AWG, stranded overall shield for 1 line LED and sonalert control 150 m (500 ft) max length to controller

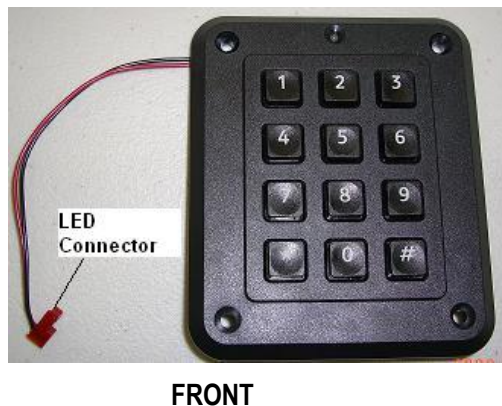
*\*Specifications subject to change without notice.*

# WEK200, WEK200L and WEK Board

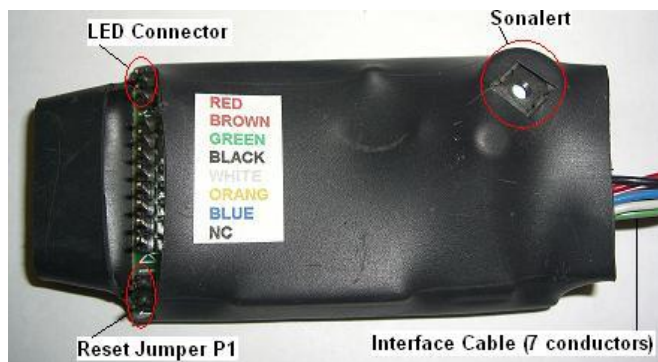
## WEK200



## WEK200L



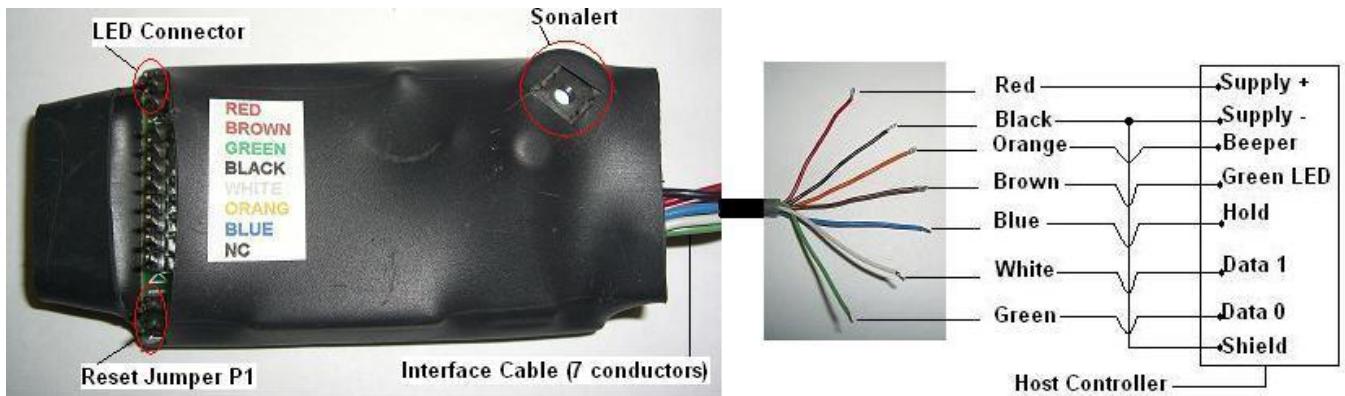
## WEK BOARD



# Wiring

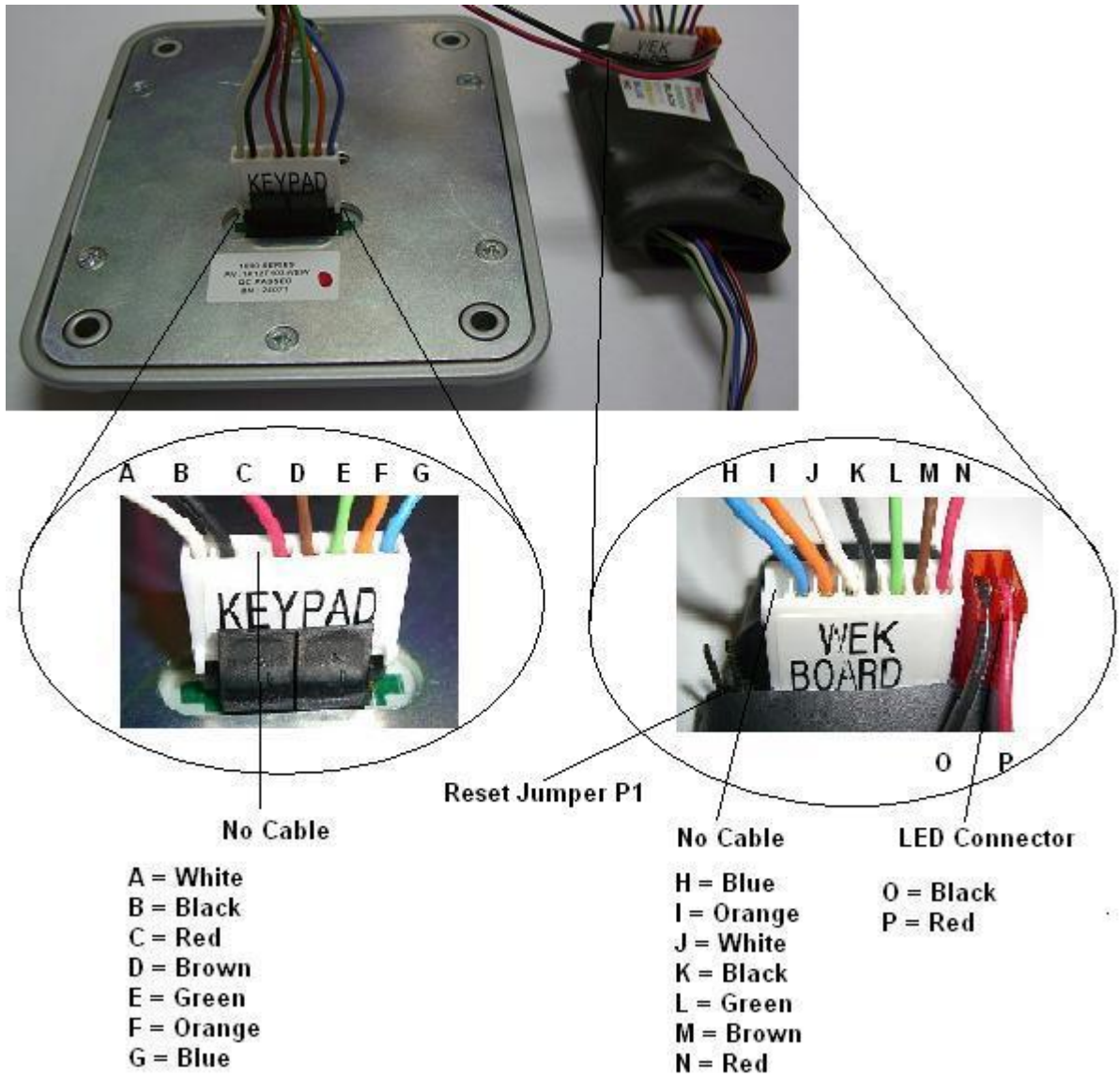
## WEK BOARD

The image below shows the wiring colours and the orientation of the seven (7) conductors interface cable from the WEK board to the access controller.



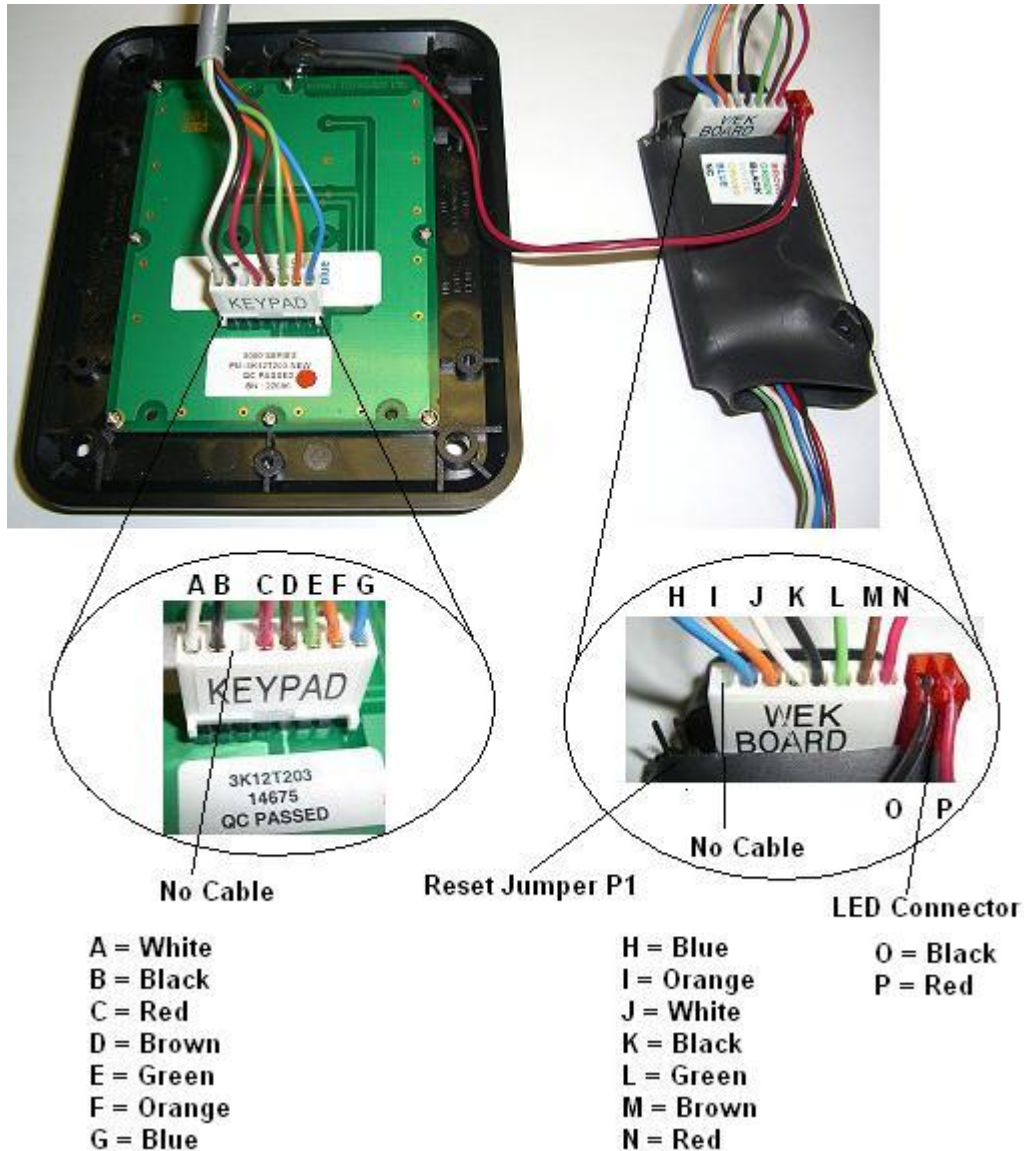
**WEK200**

The image below shows the wiring colours and the orientation of the connectors with respect to the WEK200 keypad and the WEK board.



## WEK200L

The image below shows the wiring colours and the orientation of the connectors with respect to the WEK200L keypad and the WEK board.



# Programming the System Code

## IMPORTANT:

1. The pound sign (#) must be entered after a system code is entered or else all inputs are ignored.
2. For 26-bit Wiegand output, enter a number from 0 to 255 followed by the # key and a long beep will sound.
3. For 37-bit Wiegand output (Cansec proprietary format), enter a number from 256 to 32767 followed by a # key and a long beep will sound.
4. The LED indicator should now turn solid **RED** and the programming is finished.

**NOTE:** The unit comes from Cansec in factory default mode (LED flashing **RED** and **GREEN**) without a programmed system code.

If for some reason, the unit is not flashing **RED** and **GREEN** (it is not in factory default mode), temporarily short the two pins (jumper P1) with pliers or a screw driver. This will reset the unit to factory default mode and the unit will begin to flash **RED** and **GREEN**. Follow steps 1 through 3 to program.