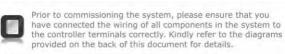
D5-Evo, D10 and D10 Turbo Pocket system configuration guide







Wizard

GEnit . - B

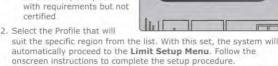
push and hold the oblong

### Commissioning the system

- 1. If powering up the system ex-factory, it will request for the operating Profile (Operating Standard) to be ZA: Standard profile for
  - South Africa
  - CE: Standard profile for the European Union
  - UL325: Standard profile for the USA, compliant certified

3. If powering up at any stage after this,

complete the setup procedure.



## 2. Setting up additional features

Section 3 below provides the full menu of features that can be set up on the system

enter button (**=**) for two seconds. Select the **Limits Menu** by pressing the enter button (**=**). Follow the onscreen instructions to

An explanation of each feature is provided in Section 21, Controller Features of the full installation manual available on www.centsys.co.za.

When setting up the D5-Evo, D10 and D10 Turbo system via the LCD display, all the steps that have to be followed are clearly provided via the display. It is only necessary to note the following:

- To get into  ${\bf Setup\ Mode},$  press the  $(\blacksquare)$  button for two seconds and follow the instructions provided The buttons provided on the controller for navigating the system are
- not marked because at each step during the setup, the function given to each button is provided on the display When not in Setup Mode, i.e. Normal Mode, the ( ) button is
- used as a test button for operating the system The triangular up or down (a) buttons are used to scroll through the diagnostic screens
- For each feature a Factory Default Setting has been programmed the controller. Referred to as an Operating Standard or Profile, these defaults have been determined to suit the requirements of the specific region where the installation is being carried out. It is only necessary to change a feature where the default does not suit the installation. When selecting any feature is
  - When selecting any feature in the menu, details of the current setting stored in the controller are displayed The schedule of Factory Defaults are detailed in the full installation manual, available for download on www.centsys.com

### 3.Menu navigation map 🕽

4.1. Operating mode

2000		1-1-1-11-1	_		Sub-Incita
***	1.	Setting limits		A	1.1. Setup wizard
$\triangle$	2.2. 2.3. 2,4.	Safety Collision force Collision count Alarm output Lck input as ESTOP External gate indication status		2.5.1. 2.5.2. 2.5.3. 2.5.4. 2.5.5. 2.5.6. 2.6.7. 2.5.8.	Opening collision force Closing collision force  Indicator output Closed indication Partly closed indication Closing indication Partly open indication Opening indication Open indication Pedestrian indication Unknown indication
	3.2. 3.3,	Autoclose Autoclose Status Autoclose Timer Autoclose Override Autoclose advanced options		3.4.1. 3.4.2. 3.4.3.	The second secon
	4.	Modes of Operation	n		

4.1.1.

4.1.2. 4.1.3. Standard Mode Condominium Mode

Reversing Mode

4.1.5. Deadman Control Mode

PLC 4.1.4.

Icon	Menu	Sub-menu		
USI	5. Run profile	ss E 1 1 Decitive Close Made Status		
	5.1. Positive Close Mode 5.2. Pre-open delay 5.3. Pre-close delay 5.4. Opening speed 5.5. Closing speed 5.6. Ramp-up distance 5.7. Ramp-down distance 5.8. TRG stop distance 5.9. IRB stop distance 5.10. Crawl distance 5.11. Torque limit	3) 5.1.1. Positive Close Mode Status 5.1.2. Positive Close Mode Force		
<u> 15</u>	6. Infrared beams 6.1. PIRAC control	3) 6.1.1. PIRAC status 6.1.2. Stop on open 6.1.2.1. Stop on open status 6.1.2.2. Stopping distance		
	6.2. IR beam test	D 6.2.1. On/Off 6.2.2. Test beam selection (IRBC; IRBC and IRBO)		
	6.3. IRBO=IRBC on closin 6.4. IR beam alarms	3) 6.4.1. Ambush Alarm 6.4.1.1. Ambush Alarm on/off 6.4.1.2. Broken IRB time		
		6.4.2. Break-in Alarm on/off 6.4.3. Alarm output selection		
办	7. Pedestrian 7.1. Pedestrian open positi 7.2. Pedestrian Autoclose 7.3. Pedestrian pre-open 7.4. Pedestrian pre-close o	time delay		
<b>**</b>	8. Courtesy Light 8.1. Courtesy Light Timer 8.2. Light Profile	>> 8.2.1. Courtesy Light 8.2.2. Pre-flash A 8.2.3. Pre-flash B 8.2.4. Pre-flash C		
(12) (12) (12) (13)	9. ChronoGuard 9.1. Time and date 9.2. Time-Periods	> 9.2.1. Add Time-period 9.2.1.1. Auto function 9.2.1.2. Time-bar function 9.2.2. Delete Time-period 9.2.3. Edit/Review Time-		
	9.3. Exclusions	periods  9.3.1. Add exclusion 9.3.1.1. Auto function 9.3.1.2. Time-bar function 9.3.2. Delete exclusion		
	9.4. Delete all Time-perio and exclusions	9.3.3. Edit/Review exclusions ds		
	10. General settings for D5-Evo and D10  10.1. Operating standard (ZA; CE; UL325)  10.2. Reset options	10.2.1. Factory defaults 10.2.2. Delete all remotes 10.2.3. Delete all Time-periods		
	10.3. Diagnostic screen on/off 10.4. Test button disabled/enabled 10.5. Backup EEPROM 10.6. Restore EEPROM	and exclusions 10.2.4, Reset all		
	10. General settings for D10 Turbo  10.1. D10 Turbo select 10.2. Operating standard (ZA; CE; UL325) 10.3. Reset options	10.3.1, Factory defaults 10.3.2, Delete all remotes 10.3.3. Delete all Time-periods and exclusions 10.3.4. Reset all		
	10.4. Diagnostic screen on/off 10.5. Test button disabled/enabled 10.6. Backup EEPROM 10.7. Restore EEPROM			



### 11.

11.3.

11.4.

11.5. 11.6.

Press button of valid transmitter (if menu locked)

Remote controls

Add remotes

11.1. 11.2. Delete remotes

» 11.2.1. Delete remote by ID 11.2.2. Delete remote button Delete remote by 11.2.3. Delete not present 11.2.4.

11.2.5.

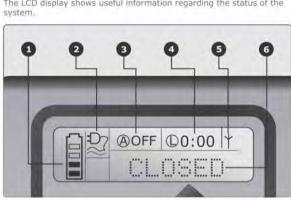
Delete all remotes

enable/disable

Edit remote button Autolearn Lock Tx menu Onboard receiver

### 4. LCD display

The LCD display shows useful information regarding the status of the system.



#### 1. Battery icon

Indicates the state of charge of the battery.

- Four solid bars = full capacity
- Two solid bars = 50% capacity
- 2. Mains icon

No solid bars, with the icon flashing = battery empty

- Displays the presence or absence of mains voltage:
  - Plug solid = mains present and battery charging
  - Plug hollow and flashing = No mains present and battery not charging

- 3. Autoclose information
  - Displays the state of the Autoclose function
  - Displays OFF if Autoclose is not selected
  - OVR if Autoclose is overridden, and the remaining Autoclose time if Autoclose is active
    - POVR indicates that the PIRAC option is overriden

#### 4. Pillar light information

- Displays the remaining light time if Courtesy Light Mode is selected
  - Pre-flashing Mode is displayed if Pre-flash is selected LIT will be indicated if the pillar light has been turned on
- permanently

#### 5. Onboard receiver information

Displays the current input being activated by the onboard receiver.

#### 6. Status information

Displays useful information regarding the status of the gate.

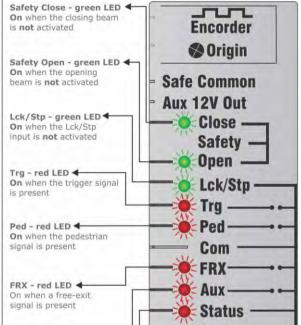
### 5. Diagnostic LEDs 🔊

The D5-Evo, D10 and D10 Turbo controllers have a series of diagnostic LEDs which indicate the state of the inputs.

Normally-open inputs are indicated by a red LED, and normally-closed inputs by a green LED.

An illuminated red LED indicates that the signal is present.

(e.g. intercom button pressed), while a non-illuminated green LED indicates that the signal is absent (e.g. IRB broken).



signal is present

Aux - red LED 4 On when an auxiliary

Status- red LED 
This LED indicated the status of the gate as per the table below: LED indication

### Motor Gate status

Battery voltage is low

Aux IO

Motor

Off Gate is closed Gate is partially or fully open Continuous slow flash Gate is opening

Continuous fast flash Gate is closing

One flash every two seconds Pillar Light Override is activated Two flashes every two seconds No mains present

Multiple collisions have occurred Four flashes every two seconds

### 5. Buzzer feedback 🕽

Three flashes every two seconds



A warning buzzer will sound (where applicable) as per the table below:

Inhibitor name	Priority	Number of beeps	Fault type  Alarm	Gate continues to operate	User can correct error
Break-in alarm	1	Continuous tone for 30 seconds			
Ambush alarm	2	Continuous tone until IRBs are cleared	Alarm	N/A	N/A
Multiple collision	4	Periodic until condition is cleared by user (500/500ms)	Collision	No	Yes
Battery low	3	Three beeps periodically for 30 seconds	Power system fault	Yes*	Yes
Auxiliary overload	5	Five beeps periodically for 30 seconds	Hardware	No	No
Holiday Lockout	6	One beep periodically for 30 seconds	User	No	Yes
Emergency stop	7	One beep periodically for 30 seconds	User	No	Yes
Time-barring	8	One beep periodically for 5 seconds	User	No	Yes
No limits set	9	Three short beeps for 5 seconds	Lost	No	Yes
Mains failure	10	Two beeps periodically for 30 seconds	Power system fault	Yes	Yes
Beams broken (any)	11	One beep periodically for 30 seconds	User	No	Yes
Beams failure	12	Five beeps periodically for 30 seconds	Hardware	No	No
DOSS disconnected	13	Five beeps periodically for 30 seconds	Hardware	No	No
Fuse blown	14	Five beeps periodically for 30 seconds	Hardware	No	Yes
Motor disconnected	15	Five beeps periodically for 30 seconds	Hardware	No	Yes
Bridge damaged	16	Five beeps periodically for 30 seconds	Hardware	No	No
Gate stalled	17	Four beeps periodically for 10 seconds	Collision	No	Yes
No magnet detected	18	Periodic while gate runs (500m/500ms)	Lost	Yes	Yes

\* Gate will close fully and then shut down for two minutes

### . Electrical setup



- Always check that the circuit breaker in the 1. electrical panel is in the OFF position, and that all high voltage circuits (more than 42.4V) are completely isolated from the mains supply before doing any work.
- Ensure that all low voltage systems (less than 42.4V) are suitably protected from damage, by disconnecting all sources of power such as chargers and batteries before 2. doing any work.
- 3. All electrical work must be carried out according to the requirements of all applicable local electrical codes. (It is recommended that a licensed electrical contractor perform such work).

### Connect all wiring

Connect the controller to the required input and output devices as per the wiring diagram on the right hand side.

# 8. Description of terminal functions

Light/Light Pillar light connection

(A normally-open potential-free input) Safe Common

Used for switching the power supply to the safety beams, if automatic beam testing is required Aux 12V Out

Auxiliary power connection.

Provides +12V DC supply for auxiliary equipment such as a radio receiver, photo cells, etc. It is electronically limited to 300mA

Safety Close Closing beam safety input

(A normally-closed potential-free input) Opening beam safety input. Safety Open (A normally-closed potential-free input)

Lck/Stp Holiday Lockout or emergency stop input. (A normally-closed potential-free input)

Trigger input. Tra (A normally-open potential-free input)

FRX Free-exit input. (A normally-open potential-free input)

Activates the pillar light relay. Aux

(A normally-open potential-free input)

Ped Pedestrian opening input (A normally-open potential-free input)

Common termination point. Com

All trigger signals, etc. have their return path to one of the Com terminals External gate status indicator. Status

(A low current output signal). An output terminal which provides a low current drive (approx. 4,5V DC, 20mA) to a LED which can be used to indicate the gate status remotely)

Aux 10 The Aux IO terminal provides an open collector output which can be used for alarm or auto function Motor output Motor

D5-Evo connects to the black motor wire D10/D10 Turbo - connects to the blue or black

motor wire Motor Motor output - connects to the blue motor wire D5-Evo D10/D10 Turbo - connects to there orange or red motor wire

12V/24 +0 Positive battery connection. Battery terminal normally indicated as + or

12V/24 -0 Negative battery connection. Battery terminal normally indicated as - or

black (left hand battery)

12V/24V this will either be 12V or 24V depending on the motor voltage of the operator

red (right hand battery)

A switch that remains in a connected or \* Latched

disconnected state similar to a standard light switch

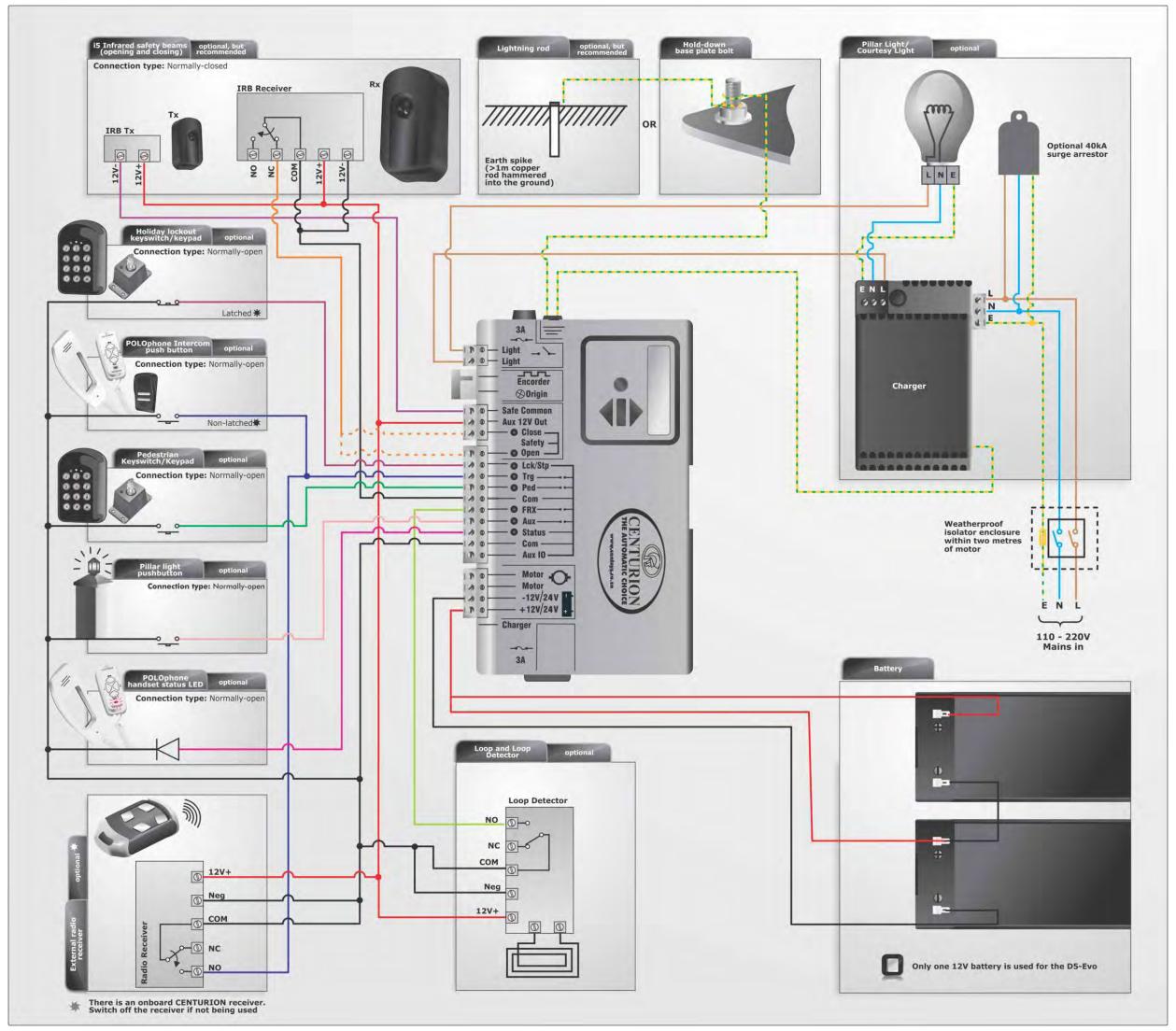
A switch that momentarily makes contact, and may

be spring loaded similar to a push button door step 9. Installation handover

Non-Latched

### Once the installation has been successfully completed and tested, it is important for the installer to explain the operation and safety

requirements of the system.





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