D5-Evo, D10 and D10 Turbo Pocket System Configuration Guide







Prior to commissioning the system, please ensure that you have connected the wiring of all components in the system to the controller terminals correctly. Kindly refer to the diagrams provided on the back of this document for details.

Setup Wizard

Accept

Exit (

1. Commissioning the system 🔊

- If powering up the system ex-factory, it will request for the operating Profile (Operating Standard) to be set.
 - ZA: Standard profile for South Africa
 - CE: Standard profile for the European Union
 - UL325: Standard profile for the USA, compliant with requirements but not certified
- 2. Select the Profile that will
 suit the specific region from the list. With this set, the system will
 automatically proceed to the Limit Setup Menu. Follow the
 onscreen instructions to 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.

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 Setup Mode, press the () 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 (♠) buttons are used to scroll through
- the diagnostic screens

 For each feature a Factory Default Setting has been programmed into 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 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.co.za**

3. Menu navigation map 渊

Icon	Menu			Sub-menu			
→ ←	1.	Setting limits		A	1.1. Setup wizard		
\triangle	2.2.	Safety Collision force Collision count Alarm output Lck input as ESTOP	>>		Opening collision force Closing collision force		
	2.5.	External gate indication status	>>	2.5.2. 2.5.3. 2.5.4. 2.5.5. 2.5.6. 2.6.7. 2.5.8.	Indicator output Closed indication Partly closed indication Closing indication Partly open indication Opening indication Open indication Pedestrian indication Unknown indication		
÷ (1)	3.1. 3.2. 3.3.	Autoclose Autoclose Status Autoclose Timer Autoclose Override Autoclose advanced options	>>	3.4.2.	Autoclose fully open Autoclose partly open Autoclose partly closed		
154	4. 4.1.	Modes of Operation Operating mode		4.1.2. 4.1.3. 4.1.4.	Standard Mode Condominium Mode Reversing Mode PLC Deadman Control Mode		

Icon	Menu		-	Sub-menu
JEST	5. Run profile			
	5.1. Positive Close Mode			Positive Close Mode Status Positive Close Mode Force
·	5.2. Pre-open delay		5.1.2.	Positive Close Mode Force
	5.3. Pre-close delay			
	5.4 Opening speed5.5. Closing speed			
	5.6. Ramp-up distance			
	5.7. Ramp-down distance5.8. TRG stop distance			
	5.9. IRB stop distance			
	5.10. Crawl distance 5.11. Torque limit			
	J.II. lorque illine			
<u>i5</u>	6. Infrared beams6.1. PIRAC control	**	C 1 1	PIRAC status
	o.i. Time control			Stop on open
				6.1.2.1. Stop on open status
				6.1.2.2. Stopping distance
	6.2. IR beam test	>>	6.2.1.	On/Off
		1	6.2.2.	Test beam selection (IRBC; IRBC and
	6.3. IRBO=IRBC on closing	g		IRBO)
	6.4. IR beam alarms	>>	6.4.1.	Ambush Alarm
				6.4.1.1. Ambush Alarm on/off
			6,4,2	6.4.1.2. Broken IRB time Break-in Alarm on/off
				Alarm output selection
	7 Padastria			
	7. Pedestrian7.1. Pedestrian open position	on		
事	7.2. Pedestrian Autoclose t	ime		
当人	7.3. Pedestrian pre-open d7.4. Pedestrian pre-close d			
-@-	8. Courtesy Light8.1. Courtesy Light Timer			
~ ■ ~	8.2. Light Profile		8.2.1.	Courtesy Light
				Pre-flash A Pre-flash B
				Pre-flash C
	9. ChronoGuard			
	9.1. Time and date 9.2. Time-Periods	11	0.2.1	Add Time-period
	J.Z. Time renous	-	J.2.1.	9.2.1.1. Auto function
				9.2.1.2. Time-bar function
				Delete Time-period Edit/Review Time-
				periods
	9.3. Exclusions	>>	9.3.1.	Add exclusion 9.3.1.1. Auto function
				9.3.1.2. Time-bar
			9.3.2.	function Delete exclusion
			9.3.3.	Edit/Review exclusions
	9.4. Delete all Time-period and exclusions	ds		
	10. General settings for	r		
	D5-Evo and D10 10.1.Operating standard			
	(ZA; CE; UL325) 10.2.Reset options))	10 2 1	. Factory defaults
	2012/1000C Options	22		Delete all remotes
			10.2.3	B. Delete all Time-periods and exclusions
	10.3. Diagnostic screen		10.2.4	. Reset all
	on/off 10.4. Test button			
	disabled/enabled 10.5. Backup EEPROM			
	10.6. Restore EEPROM			
LFF I	10. General settings for D10 Turbo	r		
	10.1. D10 Turbo select			
	10.2. Operating standard (ZA; CE; UL325)			
	10.3. Reset options	>>		. Factory defaults
				Delete all remotes. Delete all Time-periods
				and exclusions
	10.4. Diagnostic screen			
	on/off 10.5. Test button			
	disabled/enabled 10.6. Backup EEPROM			
	10.7. Restore EEPROM			



11. Remote controls



Press button of valid transmitter (if menu locked)

11.1. Add remotes

11.2. Delete remotes

>> 11.2.1. Delete remote by ID

11.2.2. Delete remote button

11.2.3. Delete remote by button

11.2.4. Delete not present On/Off

11.3. Edit remote button

11.4. Autolearn

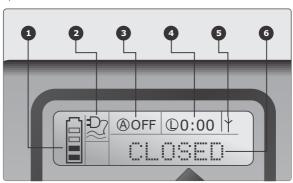
11.5. Lock Tx menu

11.6. Onboard receiver enable/disable

11.2.5. Delete all remotes

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
- No solid bars, with the icon flashing = battery empty

2. Mains icon

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

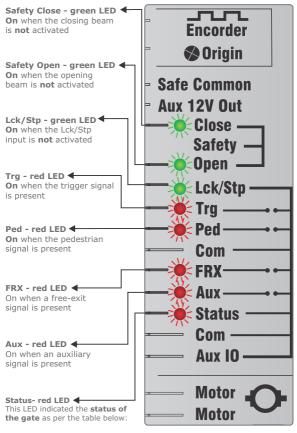
Displays useful information regarding the status of the gate.

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).



LED indication	Gate status
Off	Gate is closed
On	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
Three flashes every two seconds	Battery voltage is low
Four flashes every two seconds	Multiple collisions have occurred

6. Buzzer feedback



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

Inhibitor name	Priority	Number of beeps	Fault type	Gate continues to operate	User can correct error
Break-in alarm	1	Continuous tone for 30 seconds	Alarm	N/A	N/A
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
K Gate will close fully and then shut down for two minutes					

7. Electrical setup



- Always check that the circuit breaker in the 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 doing any work.
- 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

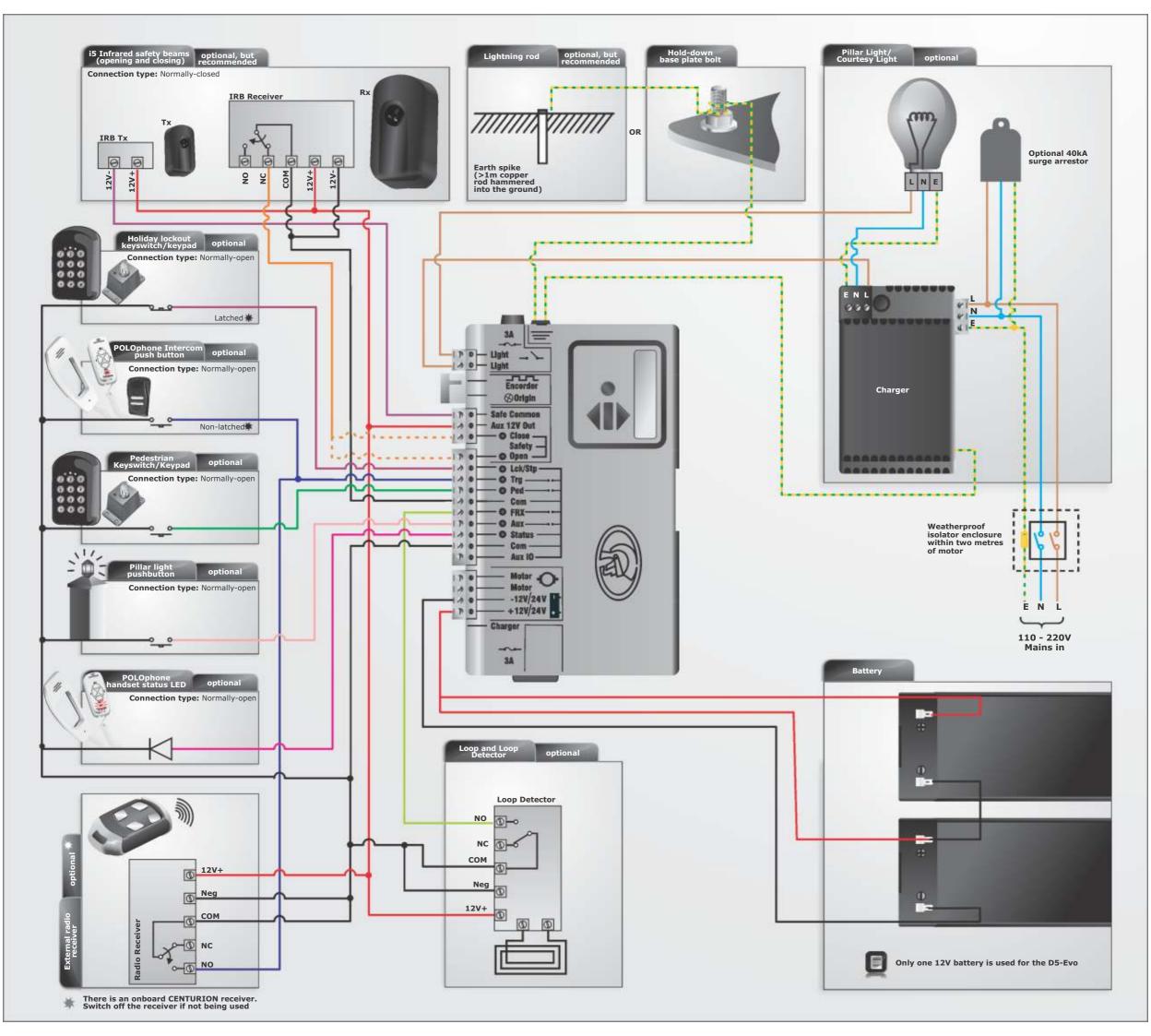
Light/Light	Pillar light connection. (A normally-open potential-free input)			
Safe Common	Used for switching the power supply to the safety beams, if automatic beam testing is required			
Aux 12V Out	Auxiliary power connection. Provides +12V DC supply for auxiliary equipment such as a radio receiver, photo cells, etc. It is electronically limited to 300mA			
Safety Close	Closing beam safety input. (A normally-closed potential-free input)			
Safety Open	Opening beam safety input. (A normally-closed potential-free input)			
Lck/Stp	Holiday Lockout or emergency stop input. (A normally-closed potential-free input)			
Trg	Trigger input. (A normally-open potential-free input)			
FRX	Free-exit input. (A normally-open potential-free input)			
Aux	Activates the pillar light relay. (A normally-open potential-free input)			
Ped	Pedestrian opening input. (A normally-open potential-free input)			
Com	Common termination point. All trigger signals, etc. have their return path to one of the Com terminals			
Status	External gate status indicator. (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 IO	The Aux IO terminal provides an open collector output which can be used for alarm or auto function purposes			
Motor	Motor output D5-Evo - connects to the black motor wire D10/D10 Turbo - connects to the blue or black motor wire			
Motor	Motor output D5-Evo - connects to the blue motor wire D10/D10 Turbo - connects to there orange or red motor wire			
12V/24 + [©]	Positive battery connection. Battery terminal normally indicated as + or red (right hand battery)			
12V/24 - [©]	Negative battery connection. Battery terminal normally indicated as - or black (left hand battery)			
	is will either be 12V or 24V depending on the motor the operator			
* Latched	A switch that remains in a connected or disconnected state similar to a standard light switch			



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.

Non-Latched

A switch that momentarily makes contact, and may be spring loaded similar to a push button door step





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