# **Installer Instructions**





Low Traffic





# **500kg Slide Gate Operators**

Designed, manufactured and supported by ET NICE (Pty) Ltd



www.et.co.za

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For any assistance with this product that is not covered in this manual please contact us on: 0860 109 238 (RSA) or via our online support facility at www.et.co.za.

# Be Safe!

WARNING!! These are the general safety obligations for the installers and users of ET NICE (Pty) Ltd automation equipment. A copy of this document also appears in the user instructions. Those instructions must be issued to the responsible end user during the handover and instruction meeting.

- 1. Only suitably qualified persons, may install, repair or service the product. Unless expressly indicated in the user instructions, no user serviceable components can be found inside any ET NICE (Pty) Ltd automation product.
- 2. It is important for personal safety to study and follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
- 3. Keep the instructions in a safe place for future reference.
- 4. This product was designed and manufactured, strictly for the use indicated in the accompanying documentation. Any other use not expressly indicated in the documentation, may damage the product and/or be a source of danger. ET NICE (Pty) Ltd cannot accept responsibility for improper use or incorrect installation of this product.
- 5. ET NICE (Pty) Ltd cannot accept responsibility if the principles of good workmanship are disregarded by the installer.
- ET NICE (Pty) Ltd cannot accept responsibility regarding safety and correct operation of the automation, if other manufacturers' equipment is added to this product.
- 7. Do not make any modifications or alterations to this product. Do not substitute any component of this product with any other component not expressly designed into this product.
- 8. Anything other than expressly provided for in the accompanying instructions is not permitted.

## Prior to installation:

- 1. All unnecessary ropes, chains and fasteners must be removed and all unnecessary latches or locks must be disabled from locking.
- 2. The gate or door must be balanced correctly where it, neither opens nor closes from any position under its own load. When operated by hand the gate or door should be free of hindrance and easily moved (In the case of a garage door if the balancing springs need to be adjusted the adjustment should only be carried out by a qualified and experienced person).
- 3. The construction of the gate or door must be sound and automatable. It is the responsibility of the installer to ensure that the mechanical components of the gate or door system are sufficient to withstand the necessary forces in cases of overload.
- 4. It is the responsibility of the installer to ensure the gate or door is sufficiently trapped within its range of travel by means of mechanical ends of travel stoppers.
- 5. Ensure all fixed mounting points, such as the wall above the door in a garage door system or the posts in a swing gate system, are sound and strong enough to allow proper fixing of the operator.
- 6. It is the responsibility of the installer to ensure the installed position selected for this product, falls within the limitations of the products ingress protection rating.
- 7. Ensure the area of installation is not subject to explosive hazards. There should be no volatile gasses or fumes as these can present a serious safety hazard.
- All ET NICE (Pty) Ltd garage door operators are supplied with a sealed 15A safety plug on lead for use in an electrical code of practice approved plug point. Do not extend, modify or replace the plug lead unless duly qualified as an electrician. Before installing the unit, ensure the mains supply is switched off.
- 9. ET Systems (Pty) Ltd gate operators are supplied with a terminal connection for the electrical supply beneath the screwed down cover of the operator. In the case of a model requiring 220Vac supply at the operator, an all pole negatively biased switch, with a contact opening of greater than 3mm must be installed within 1.5m of the operator. This switch must be clear of all workings of the system and must be in a position secure from public access. This switch and its connections must be inspected and passed by a certified electrician prior to using it.
- 10. It is the responsibility of the installer to ascertain that the designated persons (including children) intended to use the system, do not suffer reduced physical sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the system by a person responsible for their safety.
- 11. The drive may not be installed on a door incorporating a wicket door, unless the drive is disabled by the release of the wicket door. (Wicket door :- A pedestrian door within the main gate or door)

#### During installation:

- 1. Ensure the working area is clear of obstructions and obstacles.
- Install the safety warning sticker within clear view of where the gate or door will be operated from. Typically this would be adjacent to any fixed trigger switches or on the gate or door itself.
- 3. The emergency manual release must be installed where it is no higher than 1.8m from the floor level. This would apply to the cord in a garage installation or the lockable lever in a gate installation.
- 4. Any additional fixed door control switches such as wall consoles or keypads, if installed, must be at a height of at least 1.5m, within clear sight of the gate or door and away from any moving components of the system.

- 5. It is highly recommended that a set of safety infra-red beams be used in conjunction with this product. The safety beams must be installed in such a way that the product is prevented from running when anything is in the path of the door or gate.
- 6. Over and above the recommendation to use safety infra-red beams with this product it is mandatory to install and use a safety beam set when using the automatic closing feature. It is recommended that a warning light be fitted to any automation system.
- 7. The gate or door warning labels must be installed in a prominent place and/or adjacent to any fixed controls that trigger the system. These must be in clear line of sight of the gate or door opening.
- 8. The emergency manual release instruction label must be installed on or adjacent to the emergency manual release mechanism.

#### After installation - It is the responsibility of the installer to ensure the users:

- 1. Is proficient in the use of the manual emergency release mechanism.
- 2. Is issued with the documentation accompanying this product.
- 3. Understands that the gate or door may not be operated out of clear sight.
- 4. Ensures that children are kept clear of the gate or door area at all times, and that children do not play with the remote transmitters or any fixed trigger switches linked to the system.
- 5. Is instructed not to attempt to repair or adjust the automation system and to be aware of the danger of continuing to use the automation system in an unsafe condition before a service provider attends to it.
- 6. Is proficient in testing the unit's safety obstruction sensing system.
- 7. Is aware of what to check for with regards to wear and tear that may need to be attended to from time to time by the service provider.
- 8. Is aware that a fatigued battery may not be disposed of in the general refuse and must be handed in at a battery merchant for safe disposal. Before removing the battery from the system the household mains must be disconnected. In the case of the motor unit being removed and scrapped, the battery must be removed first.

TECHNICAL SPECIFICATIONS							
Technical Data	Drive 500	Drive 600					
Rated gate mass.	500kg	500kg					
Maximum gate travel.	99m	99m					
Primary power supply to gate.	16Vac @ 1A 50Hz – 60Hz	220 – 240Vac @ 50Hz – 60Hz					
Peak power consumption at gate.	26W	240W					
Electrical class.	Class 3 🚸	Class 1 📣					
Motor voltage.	12Vdc	12Vdc					
Motor current.	Current limited to 25A.	Current limited to 25A.					
Duty cycle maximum. See determining your duty cycle on page 7.	25% with 220Vac present	98% with 220Vac present					
Number of operations on battery reserve.							
(Battery health and charge level at time of power failure dependent. Calculated on a 5m gate with rolling resistance of <10kgf)	100 using the standard 7Ah battery within 24hrs.	100 using the standard 7Ah battery within 24hrs.					
Gate speed. (Gate load and power supply dependent)	Up to 28m/min.	Up to 30m/min.					
Rated Load.	200N	200N					
Operating temperature range.	-10 to 50° C (14F to 122F)	-10 to 50° C (14F to 122F)					
Anti-crushing safety sensing.	Yes – Electronic gate profiling	Yes – Electronic gate profiling					
Auxiliary supply output.	12Vdc @ 500mA	12Vdc @ 500mA					
Built in battery charger.	Multiple stage auto-calibrating 1A	Multiple stage auto-calibrating 1A					
Receiver format.	ET BLU MIX © backward compatible with ET BLUE (Rolling code)	ET BLU MIX © backward compatible with ET BLUE (Rolling code)					
Receiver frequency.	433.92MHz	433.92MHz					
Receiver channels.	4CH (BT, PED, Aux relay, Holiday lock-out)	4CH (BT, PED, Aux relay, Holiday lock-out)					
Receiver memory capacity.	1023 users	1023 users					
All users can be allowed control of all channels.	Yes	Yes					
Ingress protection.	IPX4	IPX4					
Physical dimensions.	See next page.	See next page.					

# **Technical specifications.**

# Component identification and descriptions.





Diagram number	Description	Diagram number	Description
1	Control card in housing	10	Baseplate
2	Dashboard	11	ACDC power pack 220Vac input
3	Plug-in terminal connectors	12	Manual override with lock
4	ACDC power pack	13	Electric motor
5	Battery	14	Output drive pinion
6	Mounting bolts and nuts	15	Electric motor brush ports
7	Security bracket kit mounting plate (Light duty version)	16	Revolution counter ring magnet
8	Cable inlets	17	Closed limit reed switch
9	Oil port	18	Side vent

## Dimensions including the heavy duty security bracket.





# BEFORE ATTEMPTING TO INSTALL A SLIDE GATE OPERATOR, PLEASE BE CERTAIN YOU HAVE READ AND UNDERSTOOD THE FOLLOWING TO ENSURE CONTINUED SATISFACTORY SAFE SERVICE FROM THIS PRODUCT:

- 1. Gate mechanics.
- 2. Duty cycle.
- 3. Where to position the gate motor with regards to ingress protection.
- 4. Cabling requirements.

# Gate mechanics.

#### Gate Leaf:

Gate leaf must be sound and of sufficient construction to accommodate an operator of this type (see technical specifications). Gate leaf should be straight and true with minimal deviation to the fascia that the rack must attach to (no 'banana-effect').

#### Wheels and Track:

The track must be secure, straight, level and free of all obstructions.

Recommended wheel type and size for this automation is steel or steel alloy, machined or cast wheels of at least 100mm diameter using sealed roller bearings. The larger the wheel the less rolling resistance generated. Larger wheels also maintain their plumb and momentum longer. When wheels are fixed in the gate, and not able to pivot, binding can occur if the gate is bowed. (Banana effect) For wheel profile and matching track types, see the three examples below:



#### Guides:

- It is recommended that a roller guide consisting of a sealed roller bearing clad in nylon be used.
- The guidance system should be installed at the top edge of the gate whenever possible. In cases where this is not possible the guidance system should never be below the halfway point of the total gate height when the gate is in position on its track.
- In the case of a single guide roller running in a guide channel, ensure the guide never touches both inside walls of the channel simultaneously. This
  causes the roller to snag as it tries to roll in both directions at once.
- In the case of 2 guide rollers being used on either side of the gate leaf, ensure that both wheels never touch the leaf simultaneously.
- Avoid using more than 1 guide roller on the same side of the gate leaf to prevent binding.
- As with the wheels the larger the guide the less rolling resistance generated.

#### Gate Travel:

Using a fisherman's pull scale, as shown below, pull the gate fully open and fully closed at approximately the same speed as the operator you intend to use (see technical specifications). For optimum performance, ensure that the maximum resistance does not exceed 40kgf starting and 30kgf running. The starting resistance should fall away within 300 to 500mm. Note the recommended track, wheel and guide types mentioned b) and c) above.

NBI Install physical stoppers at the ends of the gate travel to prevent the gate over-running the ends of the track as shown here. (National safety standard requirement)



# Duty cycle.

The Formula used to determine duty cycle is:

Run time

Run time + rest time x 100 = Duty cycle

#### Working example 1: (Low duty cycle)

Run time: 17 seconds. Rest time: 60 seconds.

17 ÷ 77 x 100 = 22.07

Thus the duty cycle in example 1 is said to be 22.07%

#### Working example 2: (High duty cycle)

Run time: 17 seconds. Rest time: 1 second.

17 ÷ 18 x 100 = 94.44

Thus the duty cycle in example 2 is said to be 94.44%

The above examples do not factor in resistance and gate mass. These two elements contribute greatly to the amount of heat generated in your gate automation system. When considering a battery dependent motor type, the battery charge level and health is the key factor to consider in determining duty cycle.

Below are the maximum allowed duty cycles based on the gate mass and rolling resistance for the ET motor models. These are calculated to conform to the standards set out in the SANS 60335-95-1:2011 safety code.

#### Duty cycle capabilities guideline of the ET Drive series motor models:

Model	Gate Mass	Starting Resistance	Rolling Resistance	Max Duty Cycle
Drive 300 - Battery dependent.	≤ 300 kg	≤ 200N	≤ 180N	25%
Drive 500 - Battery dependent.	≤ 500 kg	≤ 400N	≤ 300N	25%
Drive 600 - ACDC	≤ 500 kg	≤ 400N	≤ 300N	98%
Drive 1000 - ACDC	≤ 1000 kg	≤ 500N	≤ 400N	98%
Drive 1000 - Battery dependent option.	≤ 1000 kg	≤ 500N	≤ 400N	25%

# Where to position the gate motor.

#### Liquid ingress:

The ET Drive series motor models all carry an ingress protection rating of IPX4. This means they are protected from splashing water. They are not water tight as there are sensitive electronic and electrical circuits that require uninhibited airflow to remain cool and dry. When deciding on an installation position, be aware of water collection points around and near the desired mounting position of the motor unit. If the water does not flow away quick enough, it can seep into the system and cause expensive and possibly hazardous damage. Always install the unit higher than the highest level, any water flowing past the motor unit can reach.

#### Physical protection:

Whenever possible, always install the gate motor on the opposite side of the gate's guide/emergency post, to the driveway itself. This way it is out of the path of the motor vehicles as they pass through the entrance/exit.

# Cabling requirements.

- Before mounting the operator ensure your cables and conduiting are in place to prevent any inconvenience at a later stage.
- All 220Vac mains cabling and circuits need to be installed by a qualified electrician and signed off by a registered electrician.
- Allow for spare cabling in case of faulty cable & breakages (especially important when using low specification cable).
- As automation systems vibrate when in use, it is highly recommended that only multi-stranded, flexible cables be used.
- If installing an intercom, remember to allow for sufficient cable cores for all the users of the system as per manufacturers cabling requirements.
   The Drive 500/600 operators are designed to facilitate three 20mm conduits going directly into its housing from below. If more cabling needs to be routed to the operator, we suggest that a weatherproof electrical box be installed as a distribution box. All of the circuits can then be extended to the distribution box and terminated there.



1.	Courtesy lights twin + earth 1.0mm back to motor housing and isolator switch.	7.	Free exit loop 1.5mm silicone insulated single core flexible stranded cable back to loop detector that is typically installed in the motor housing.
2.	Intercom gate station (check with intercom supplier for cable specifications).	8.	From intercom internal equipment (check with intercom supplier for specifications) + 5 cores 0,5mm stranded for status LED, BT and Pedestrian triggers.
3.	Drive 600 & Drive 500 "On plate" (220v AC) - twin + earth: 2.5mm stranded (An all pole negatively biased isolator must be installed within 1,5m of the motor unit, in circuit with the 220Vac supply)	9.	Alarm monitoring circuit. 2 cores 0.5mm stranded back to motor housing.
4.	Safety infra-red beam RX power & switch. 4 cores 0,5mm stranded back to motor housing.	10.	Drive 500 using a plug in transformer for low traffic sites (16v AC) - twin + earth. Min 0,5mm stranded (1Amp).
5.	Safety infra-red beam TX power. 2 cores 0.5mm stranded back to motor housing.	11.	Lock power supply. Twin + earth 2.5mm stranded from isolator switch.
6.	Electric lock power. 2 cores 0,5mm stranded back to independent lock power supply via operator housing.		



Diagram number	Description
1	M8 x 50 machine bolts for fastening the gearbox to the baseplate.
2	M8 Flat washers.
3	M8 Nylock nuts.
4	Baseplate.
5	Electrical conduit piping.

# Installing the baseplate.

There are a number of different fastening techniques that can be used to fasten the baseplate in position. J-bolts kits are available as optional extras, so that the baseplate can be cast in concrete. While this method offers a nice solid base it takes more than 48hrs to install as the concrete must cure properly before continuing with the installation. Whichever mounting method you opt for, the position of the base plate will always remain the same. Here are the dimensions to use when positioning the base plate. The baseplate should be installed above the highest point of flooding that may occur with the run off of water down the driveway.



#### Cabling conduits height:

The cabling conduits should protrude more than 10mm above the top surface of the baseplate to afford better weather proofing. To avoid the conduits and cabling from snagging on the bottom of the gearbox when the gearbox position is adjusted backward and forward, and to allow sufficient space for the cables to be routed into the motor housing, the conduits should not protrude above the top surface of the edge of the baseplate.



# Mounting the operator onto the baseplate.

**Removing the cover:** (You will need a Phillips® #2 screwdriver here) The cover is secured in place by means of four screws.

Using a screwdriver, remove the four cover screws (A) and then raise the cover (B).



Always allow a minimum of 8mm between the facsia of the pinion and the proudest component of the gate when positioning the operator on the baseplate.





The gearbox is fastened onto the baseplate by means of two of each; M8 machine bolts, M8 washers, the security bracket mounting plates and M8 Nylock nuts. The gearbox distance from the gate can be adjusted backwards and forwards by up to 30mm. Remember to ensure that there is enough space allowed between the fascia of the pinion and the proudest part of the gate that passes the pinion. This is to prevent any part of the gate snagging on the pinion as the gate runs.

Before tightening the gearbox down on the baseplate, insert strips of flat bar between 1 - 2mm thick, between the baseplate and the bottom of the gearbox. This will provide the correct rack to pinion spacing later on. See page 12.



Diagram number	Description				
1	Side vent insert.				
2	M8 Nylock nut.				
3	M8 Flat washer.				
4	Security bracket mounting plate. (Light duty shown here)				
5	M8 Machine bolt.				



#### Rack to pinion spacing.

Correct.	Incorrect!	Incorrect!
The driving surfaces of each tooth are 1 to 2mm apart. Allowing for slight variance in the height of the rack when the wheels shrink in colder conditions or where the gate flexes and the rack is no longer square to the pinion.	This will cause skipping of teeth at the slightest resistance to the gate travel, resulting in the motor control going out of synchronization to the gate position. The long term damage here will be stripped teeth.	This will cause unwanted rolling resistance especially in colder conditions. Where the wheel shrinkage will cause the gate to sit heavier on the pinion or when the rack is no longer square to the pinion due to gate flex. (False safety sensing activation)
Correct	XToo loose	XToo tight

#### The following shows a simple method of installing a rack that ensures you achieve the correct fit between the rack and pinion.



#### Step 2:

• If satisfied with the rack level fasten the first "TEK" screw (supplied) in the middle of the slot nearest the closing edge of the gate.



#### Step 3:

 Move the gate towards the open position. Far enough that you can access the last mounting slot at the opposite end of the length of rack to the end already fastened. Fasten the next "TEK" screw here while the rack still rests atop the pinion.



#### Step 4:

- To install additional lengths of rack, move gate closed until the next length of rack meets the first length and the opposite end once again rests on the pinion.
- To ensure the 2 lengths of rack marry correctly use an off cut of rack clamped upside down across the join of the 2 lengths.
- Continue to fasten the "TEK" screws as before.



#### Step 5:

 When finished installing sufficient rack to allow for the full travel of the gate plus enough to allow for the limit actuator (as shown in the next section) lower the gearbox by removing the 1-2mm flat bar spacers.



#### Step 6:

- Test the meshing of the rack and pinion. (See pictures of rack to pinion spacing on previous page).
- If satisfied fasten a "TEK" screw directly through both the rack angle and the gate so that you have 5 "TEK" screws per length of rack evenly spaced.



# **Electrical installation.**

As a gate motor vibrates when in use, it is strongly recommended that only multiple strand flexible cables be used. Before closing the unit, always remember to double check that all connections are securely made, that there are no stray strands flaring out that can short circuit against other adjacent connections or bared wires and that no cables will be pulled loose when the cover is replaced on the unit. Double check the battery connections as loose connections can cause arcing and corrosion of the battery terminals.

#### Terminating the AC voltages:

Please note the input voltages can differ but the control card, is the same for all the models.

The ACDC power supply requires 220v AC at the gate motor. This 220v AC must be circuited through a weatherproof all pole isolator switch. This isolator switch must be installed within 1,5m of the unit, must not be installed within the workings of the system (the gate may not pass in front of it) and must be positioned so that it cannot be tampered with from the outside of the property. This circuit must be certified by way of a C.O.C. (certificate of compliance) by a registered electrician.

In the case of the plug-in transformer being used, where the low voltage 16v AC is run to the gate, there is no need for the all pole isolator at the gate and the circuit does not need to be certified by a registered electrician\*. The cable however must still be installed in its own dedicated conduit pipe and the basic principles of electrical safety standards should still be followed when selecting, working with and installing the cable for this circuit.

\* Some municipalities may require certification of all domestic electrical circuits including those below 50V.

The following shows the wiring of the 220v AC to the ACDC power supply and how to access the 5A fast blow 20mm x 5mm fuse located within the power supply module.

#### Connecting the 220v AC supply to the ACDC power supply (Drive 600):



#### Accessing the 220v AC 5A fuse in the ACDC power supply in the case of a burnt out fuse:



Ensure the 220v AC has been isolated.





Replace the 5A 220v AC fuse here.

# Wiring and termination of the control card.



# Installing the limit actuator.

This diagram depicts how to install the limit actuator.



- 1. Push the gate up against the closed stopper.
- 2. Remove the rack screw (holding the nylon teeth to the steel angle) closest to being in line with the limit switch. Or in the case of steel rack, weld a M4 x 20 machine bolt upside down on top of the spine of the rack in line with the limit switch.
- Fasten the actuator down onto the rack using either the M4 x 20mm self-tapping screw supplied with the kit or with a nut in the case of steel rack.
   Adjust the actuator so that it is approximately halfway across the limit switch.
- Move the gate open and then closed again. Ensure the limit LED comes on BEFORE the gate impacts with the closed stopper. Select positive close mode if the gate needs to close further than where the limit actuator triggers it. See page 29.

# Using the control card display and dashboard.

The Drive 500/600 control card is equipped with an LCD display and interactive keys for simplified programming and diagnostics. All setup, of the various features, requires that the control card dashboard be used. Below are the functions of each key on the dashboard.



# Control card programming and setup.

# Programming menu quick reference guide:

- 1. Runtime setup. Page 18.
- 2. Overload setting. Page 19.
- 3. Safety beam setup. Page 19.
- 4. BT triggers operating mode selection and setup. Page 20.
- 5. Pedestrian operation setup. Page 21.
- 6. Receiver setup.
  - a. Quick learn. Pages 22, 23.
  - b. Advanced learn Page 24.
  - c. Erase remotes. Pages 25 and 26.
  - c. Diagnose remotes. Page 27.
  - d. Receiver information. Page 28.

#### 7. Advanced menu. - Pages 29 and 30.

- a. Crawl distance.
- b. Positive closing.
- c. Auxiliary relay setup.
- d. Power settings.
- e. Controller setup.
- f Controller information.
- g. IEC Standards mode.
- h. Reset and restore.

Runtime Setup		Setting up the gate runtime. (Mandatory)					
From Standby st	tatus	- Standard mode - - Standby	Before continuing w been installed corr gate midway in its t	3efore continuing with the runtime setup ensure the limit actuat been installed correctly as per page 16 in this manual. Begin wi gate midway in its travel.			
			NB. To speed up the gate while running during this procedure, press and hold either the < or > buttons.				
				Response			
Action		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	Ph	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2			
Scroll < or > to select the runtime setup option.	ÐÐ	Display scrolls through options.	Runtime setup <limits not="" set=""></limits>				
Press and release the button to select runtime setup.	Ph	If gate is closed, the display will prompt you to move gate midway.	Move gate midway	IJ))×1			
If gate is closed, move it midway and re-engage the manual override.		Display asks you to select the gate closing direction.	Set Close Direct Press < or >	IJ))×1			
Confirm gate closing direction by pressing and releasing either the < or > button.		Gate closes slowly. Display and buzzer confirms.	Finding closed limit	IJ))×1			
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops and starts opening.Display prompts you to stop the gate in the open position.	Learning length Press □ at open				
Press and release the D button to stop the gate at the required open position.	Br	Gate stops opening. Display asks you to fine tune the open position if required and then confirm the position.	Fine Adjust <or> Then press □</or>	Ţ)))×1			
Press and release the button to save the required open position.	Pm	Gate closes slowly. Display and buzzer confirms.	Verifying length	IJ))×1			
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops. Display and buzzer warn the profiling is about to begin.	WARNING! Profiling.	IJ))×1			
Once warning tone has stopped.	X	Gate begins running open at full speed. Display confirms.	Opening. Profiling.				
When the previously programmed open position is reached.		Gate stops and begins closing again at full speed. Display confirms.	Closing. Profiling.				
When the closed position is reached and the closed limit is triggered. LED on.		Gate stops. Display and buzzer confirms.	Runtime setup. <limits set=""></limits>	IJ))×1			
Scroll left or right to next program option.	(Fr	OR OR	EXIT back to standby status	(Im	"Selected" mode - Standby		

	Selecting a	safety level.			<b>Overload Setting</b>	
From Standby	status	<ul> <li>"Selected" mode - Standby</li> <li>This adjusts the force level, over and above the nom resistance, needed to trigger the safety overload Level 1 being the most sensitive and 8 being the leat tive. The factory default is level 3.</li> </ul>			nd above the nominal gate e safety overload routines. and 8 being the least sensi-	
Action		Response				
Action		Description	Display	Buzzer	Gate	
To enter the program menu. Press and hold the D button until buzzer beeps.	Br	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2		
Scroll < or > to select the runtime setup option.	E C	Display scrolls through options.	Overload Setting <			
With "Overload Setting" on the display, press and release	Bh	Display shows current option status.	Overload Setting < >	IJ))×1		
Scroll < or > to the required setting.	ÐÐ	Display changes respectively.	Overload Setting	Ū∭×1		
With required setting displayed, press and release	Eth	Display briefly shows the new setting is saved.	Overload Setting Saved = 2	IJ))×2		
After display confirms new setting.	Overload Setting <	Display returns to programming menu options list.	Overload Setting <			
Scroll left or right to next			EVIT back to standby		"Solostod" modo	
program option.	THI THE	OR	status	(Tw)	- Standby	
program option.	Safety infra-re	OR d beams setup.	status	(Try)	- Standby Beam Setup.	
program option.	Safety infra-re	d beams setup. - "Selected" mode - - Standby	Use this option to e	enable the safe	Beam Setup.	
program option. From Standby	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby	Use this option to e 20) Resp	enable the safe	Beam Setup.	
program option. From Standby Action	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby Description	Use this option to e 20) Resp Display	enable the safe	Beam Setup. ety beam circuit. (See page	
Program option. From Standby Action To enter the program menu. Press and hold the  button until buzzer beeps.	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby Description Display and buzzer confirms.	Use this option to e 20) Resp Display Programming menu <or></or>	enable the safe	Beam Setup. ety beam circuit. (See page Gate	
From Standby From Standby Action To enter the program menu. Press and hold the D button until buzzer beeps. Scroll < or > to select the beam setup option.	Safety infra-re status	OR d beams setup. - "Selected" mode - - Standby Description Display and buzzer confirms. Display scrolls through options.	Use this option to e 20) Resp Display Programming menu <or> for options Beam Setup &lt;</or>	enable the safe	Beam Setup. ety beam circuit. (See page Gate	
program option.         From Standby         Action         To enter the program menu.         Press and hold the □ button until buzzer beeps.         Scroll < or > to select the beam setup option.         With "Beam Setup" on the display, press and release □.	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby Description Display and buzzer confirms. Display scrolls through options. Display shows current option status.	Use this option to e 20) Resp Display Programming menu <or> for options Beam Setup &lt;</or>	enable the safe onse Buzzer (1)) x2 (1)) x1	Beam Setup.  Beam Circuit. (See page Gate	
Program option. From Standby Action To enter the program menu. Press and hold the  button until buzzer beeps. Scroll < or > to select the beam setup option. With "Beam Setup" on the display, press and release  . Scroll < or > to to toggle between "Enabled" and "Disabled".	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby Description Display and buzzer confirms. Display scrolls through options. Display shows current option status. Display changes respectively.	Use this option to e 20) Resp Display Programming menu <or> for options Beam Setup c = change &gt; Beam Setup Disabled Beam Setup Enabled</or>	enable the safe onse Buzzer ())) x2 ())) x1 ())) x1	Gate	
program option.         From Standby         Action         To enter the program menu.         Press and hold the □ button until buzzer beeps.         Scroll < or > to select the beam setup option.         With "Beam Setup" on the display, press and release □.         Scroll < or > to toggle between "Enabled" and "Disabled".         With required setting displayed, press and release □.	Safety infra-re	OR d beams setup. - "Selected" mode - - Standby Description Display and buzzer confirms. Display scrolls through options. Display shows current option status. Display changes respectively. Display briefly shows the new setting is saved.	Use this option to e 20) Resp Display Programming menu <or> for options Beam Setup Change &gt; Beam Setup Enabled Beam Setup Enabled</or>	enable the safe onse Buzzer ())) x2 ())) x1 ())) x1 ())) x1	Beam Setup.  Ety beam circuit. (See page  Gate	

"Selected" mode - Standby EXIT back to standby × OR status

D

Scroll left or right to next program option.

BT Mode Setting	Selecting a BT operating mode and adjusting the BT auto-close time.					
From Standby status		<ul> <li>"Selected" mode - - "Selected" mode - - Standby</li> <li>The factory default is standard 4 step mode. The factory default auto-close time is 15 seconds. The timer range is 1 - 254 seconds. PLEASE NOTE!! If any trigger option, that makes us of an automatic closing timer, is used then the infra-red safety beam input becomes active for that transaction. A set of safety infra-re beams must be installed using the technique indicated in this manual to allow for gate closing. The safety beam function on this control card conforms to the IEC/SANS safety standards.</li> </ul>				
Action		Response				
		Description	Display	Buzzer	Gate	
To enter the program menu. Press and hold the D button until buzzer beeps.	Bh	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2		
Scroll < or > to select the beam setup option.	ÐÐ	Display scrolls through options.	BT Mode Setting <			
With "BT Mode Setting" on the display, press and release <b>D</b> .	Eth	Display shows current option status.	BT Mode Setting < Standard >	<b>□</b> )))×1		
			BT Mode Setting < Standard >			
			BT Mode Setting < Auto-close >			
Scroll < or > to the required BT mode option.	ÐÐ	Display changes respectively.	BT Mode Setting < CONDO >	IJ))×1		
			BT Mode Setting < P.I.R.A.C. >			
			BT Mode Setting <p.i.r.a.ccondo></p.i.r.a.ccondo>			
With required setting displayed, press and release	R	If Standard mode was selected, the display and buzzer will confirm the setting is saved. Display then reverts to programming options list.	BT Mode Setting Standard - Saved	Ū)))×2		
		If Auto-close, CONDO or P.I.R.A.C. or P.I.R.A.CCONDO were selected, then the buzzer beeps once, and the display prompts you to select the required auto- close time.	Set Auto-close time = 15s	IJ))×1		
Scroll < or > to the required setting.	ÐÐ	Display changes respectively.	Set Auto-close time = 20s			
With required setting displayed, press and release .	Gh	Display briefly shows the new setting is saved.	Set Auto-close Saved = 20s	Ū∭×2		
After display confirms new setting.	Set Auto-close Saved = 15s	Display returns to programming menu options list.	BT Mode Setting <			
Scroll left or right to next program option.	A C	OR	EXIT back to standby status	(Th	"Selected" mode - Standby	

Setting up the pedestrian open distance and pedestrian auto-close time. Ped Setting							
From Standby	status	- "Selected" mode - - Standby	<ul> <li>NB! The runtime setup must be completed first before pedestrian setup can be attempted.</li> <li>The factory default pedestrian opening is 1 meter. The factory default auto-close time is 2 seconds. The range is 1 – 254 seconds.</li> <li>PLEASE NOTE!! If safety beams are not installed th pedestrian mode reverts to 4 step mode where the will not auto-close. A set of safety infra-red beam be installed using the technique indicated in this ma allow for auto-closing in pedestrian mode. The safety function on this control card conforms to the IEI safety standards.</li> </ul>				
Action		Description	Resp	onse Buzzer	Gate		
To enter the program menu. Press and hold the D button until buzzer beeps.	Rm	Display and buzzer confirms.	Programming menu <or> for options</or>	))) x2	oate		
Scroll < or > to select the pedestrian setting option.	BB	Display scrolls through options.	Ped Mode Setting < □ = change >				
With "Ped Setting" on the display, press and release <b>D</b> .	Br	Display shows current pedestrian opening distance.	Pedestrian open distance: 1000mm	IJ))×1			
Scroll < or > to the required setting.	ÐÐ	Display changes respectively.	Pedestrian open distance: 1200mm	IJ))×1			
With required setting displayed, press and release D.	P	Display briefly shows the new setting is saved and then prompts you to set the pedestrian auto- close time if safety beams have been installed and setup correctly.	Pedestrian Setting Auto-close = 2s	IJ))×2			
Scroll < or > to the required setting if necessary.	ÐÐ	Display changes in seconds with each button press.	Pedestrian Setting Auto-close = 3s				
With required setting displayed, press and release		Display briefly shows the new setting is saved.	Pedestrian Setting Saved = 3s	IJ))×2			
After display confirms new setting. PED Mode Setting Enabled Saved		Display returns to programming menu options list.	PED Mode Setting < □ = change >				
Scroll left or right to next program option.	En Or	OR	EXIT back to standby status	(Th)	"Selected" mode - Standby		

Receiver Setup	Receiver programming and setup. Setting up a new user: - Quick learn method.							
From Standb	ny status	- "Selected" mode - - Standby	The gate can be in any position when performing this routine. Please note that if an ET BLU MIX <sup>®</sup> transmitter is being used and not all of the buttons have been set to the same format, then the receiver will allocate 2 user addresses for the various buttons. 1 for the but- tons set to ET BLU MIX <sup>®</sup> and 1 for the buttons set to ET BLUE.					
Action	2		Res	ponse				
Action		Description	Display	Buzzer	Gate			
To enter the program menu. Press and hold the button until buzzer beeps.	Ph	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2				
Scroll < or > to select the receiver setup option.	ÐÐ	Display scrolls through options.	Receiver Setup < □ = change >					
With "Receiver Setup" on the display, press and release <b>D</b> .	Ph	Display shows current option status.	Receiver Setup Quick learn	IJ))×1				
With "Quick learn" on the display, press and release	Bh	Display prompts you to select a function.	Select function BT, Full opening					
			Select function					
Scroll < or > to the required receiver function/channel option.			Select function Pedestrian opening	2				
NB! Corresponding 4	B	Display changes respectively.	Select function Auxiliary relay	⊥())) ×1				
is explained in the next			Select function					
next page.			Select function					
			Corresponding					
Press and hold required button on the remote transmitter.	Ma							
While still transmitting with the remote button, press and release <b>D</b> .	Em	After the D button has been released, the user address for that transmitter displays and the buzzer beeps twice.		IJ))×2				
Release the button on the remote transmitter.								
Repeat the last 4 steps here	Repeat the last 4 steps here for additional users or functions, or exit back one level in the receiver setup menu for other receiver setup options.							
Scroll left or right to next program option.	An Ca	OR	EXIT back to receive setup	r Ar	Receiver setup - Quick Learn			

Receiver programming and setup. Setting up a new user: - Quick learn method. (Corresponding 4 function learn option)

From Standby status		- "Selected" mode - - Standby	- The gate can be in any position when performing this routine.		
Action			Res	ponse	
Action	-	Description	Display	Buzzer	Gate
To enter the program menu. Press and hold the d button until buzzer beeps.	Gm	Display and buzzer confirms.	Programming menu <or> for options</or>	Ū∭×2	
Scroll < or > to select the receiver setup option.	Ð	Display scrolls through options.	Receiver Setup < □ = change >		
With "Receiver Setup" on the display, press and release <b>D</b> .	Ph	Display shows current option status.	Receiver Setup Quick learn	IJ))×1	
With "Quick learn" on the display, press and release	Pm	Display prompts you to select a function.	Select function BT, Full opening		
Scroll < or > to the corresponding learn option.	HB		Select function Corresponding	∭×1	
Press and hold any button on the remote transmitter. All four buttons must be set to the same format for this to work in the same way as this example.	د میرا				
While still transmitting with the remote button, press and release <b>D</b> .	(Pr)	After the D button has been released, the user address for that transmitter displays and the buzzer beeps twice.		ŢĴ)) <sup>×2</sup>	
Release the button on the remote transmitter.					
Each button on that remote t channel allocations.	ransmitter has been all	located to the channels o	on the receiver. Please s	ee below for th	e automatic button to receiver
Repeat the last 4 steps here f	or additional users or e	exit back one level in the	receiver setup menu fo	r other receiver	setup options.
Scroll left or right to next program option.	Pro Ca	or or	EXIT back to receive setup	r Am	Receiver Setup - Quick Learn
ET BLU MIX® Blue - BT Channel Red - RLY Channel ET			Blue - RLY Channel — Red - PED Channel —		E Green - HOL Channel Grey - BT Channel

All buttons should be set to either ET BLUE format or ET BLU MIX® format for this to work as shown here.

Receiver Setup	Receiver programming and setup. Setting up a new user: - Advanced learn method.						
From Standb	vy status	- "Selected" mode - - Standby -			n performing this routine. © transmitter is being used and t to the same format, then the es for the various buttons. 1 for 1 for the buttons set to ET BLUE.		
Actio	n		Res	ponse			
To entro the meaning		Description	Display	Buzzer	Gate		
menu. Press and hold the button until buzzer beeps.	(Ghr)	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2			
Scroll < or > to select the receiver setup option.	ÐÐ	Display scrolls through options.	Receiver Setup < □ = change >				
With "Receiver Setup" on the display, press and release <b>D</b> .	R	Display shows receiver setup options.	Receiver Setup Quick learn	IJ))×1			
Scroll < or > to select the advanced learn option.	ÐÐ	Display changes respectively.	Receiver Setup Advanced learn	Ľ∭)×1			
With "Advanced learn" on the display, press and release <b>D</b> .	Bh	Display prompts you to select an available user address.	Select address < 1 = used >				
Scroll < or > to select an available user address.	ÐÐ	Display changes respectively.	Select address < 2 >				
With an available user address on the display, press and release <b>□</b> .	Ref	Display changes to receiver functions list.	Select function BT, Full opening	□[])))×1			
Scroll < or > to the required receiver function/channel option.			Select function BT, Full opening Select function Pedestrian opening				
NB! Corresponding 4 function learn option	B	Display changes respectively.	Select function Auxiliary relay	IJ)))×1			
is explained in the next instruction table on the next page			Select function Holiday lockout				
lion page.			Select function Corresponding				
Press and hold required button on the remote transmitter.							
While still transmitting with the remote button, press and release <b>D</b> .	Br	After the D button has been released, the user address for that transmitter displays and the buzzer beeps twice.		Ţ)))×2			
Release the button on the remote transmitter.							
Repeat the last 4 steps here	for additional functions	or exit back one level in	the receiver setup mer	u for other opti	ions.		
Scroll left or right to next program option.	Scroll left or right to next program option. OR EXIT back to receiver setup Advanced Learn						

F Era	Receiver Setup						
From Standby	y status	- "Selected" mode - - Standby	performing this routine.				
Action			Res	ponse			
To enter the program menu. Press and hold the button until buzzer beeps.	Br	Description Display and buzzer confirms.	Display Programming menu <or> for options</or>	Buzzer	Gate		
Scroll < or > to select the receiver setup option.	BB	Display scrolls through options.	Receiver Setup <				
With "Receiver Setup" on the display, press and release <b>D</b> .	Bh	Display shows current option status.	Receiver Setup Quick learn	IJ))×1			
Scroll < or > to select the Erase remotes option.	È	Display scrolls through options.	Receiver Setup Erase remotes				
With "Erase remotes" on the display, press and release <b>I</b> .	B	Display shows first erase option.	Erase Remotes Select Address	IJ))×1			
With "Select Address" on the display, press and release <b>D</b> .	- Carlo	Processor scans the memory and then displays the first used address that can be erased.	Erase Address < 1 >				
Scroll < or > to the user address that you would like to erase.	È	Display scrolls through the used addresses.	Erase Address < 5 >				
With the correct user address displayed, press and release <b>□</b> .	E	Display confirms the user address has been erased.	Erase Remotes Erase done	Ľ∭)×2			
After the display confirms the erasing of the address is done.	Erase Remotes Erase done	Display reverts to main erase remotes options.	Erase Remotes Select Address				
Repeat the last 4 steps here t	o erase additional user	s or exit back one level in	n the receiver setup me	nu for other rece	iver setup options.		
Scroll left or right to next program option. OR EXIT back to receiver setup Erase Remotes							

Receiver Setup	Receiver programming and setup. Master erasing all users from the memory.						
From Standby	y status	- "Selected" mode - - Standby	- "Selected" mode - - Standby The gate can be in any position when performing this routine.				
A			Res	ponse			
Action		Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	R	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2			
Scroll < or > to select the receiver setup option.	BB	Display scrolls through options.	Receiver Setup <				
With "Receiver Setup" on the display, press and release <b>D</b> .	Em	Display shows current option status.	Receiver Setup Quick learn	IJ))×1			
Scroll < or > to select the Erase remotes option.	ÐD	Display scrolls through options.	Receiver Setup Erase remotes	IJ))×1			
With "Erase remotes" on the display, press and release <b>D</b> .	(gh)	Display shows first erase option.	splay shows first Erase Remotes ase option. Select Address				
Scroll < or > to select the Erase ALL memory option.	(P) (P)	Display scrolls through options.	Erase Remotes Erase ALL memory	IJ))×1			
With "Erase ALL memory" on the display, press and release <b>D</b> .	Em	Display then prompts you to press and hold the D button.	Hold 🗆 to erase ALL				
When prompted, press and hold <b>D</b> .	Pm	Display prompts you to now also begin holding the > button.	Hold □and > to erase ALL				
While holding □ begin holding the > button.	(Tu) Tu)	Display confirms the erase ALL is about to begin. Buzzer beeps intermittently. Releasing either button at this stage will abort the master erase.	Continue holding and >  Preparing to erase ALL	Dn/off			
When buzzer silences. Release the buttons.		Master erase begins. Display confirms.	Erasing ALL Please wait	×			
After erase ALL is complete.		Display confirms.	Erase ALL Erase complete	Ū)))×2			
After the display confirms the erase ALL is complete.	Erase ALL Erase complete	Display reverts to main erase remotes options.	Erase Remotes Erase ALL memory				
Scroll left or right to next program option.	B B	OR	EXIT back to receive setup	Brogen	Receiver Setup Erase Remotes		

F	Receiver Setup					
From Standby	y status	- "Selected" mode - - Standby	- "Selected" mode - - Standby The gate can be in any position whe This feature can be used to determine interference. Use this feature to check p			
Action			Res	ponse		
Action		Description	Display	Buzzer	Gate	
To enter the program menu. Press and hold the button until buzzer beeps.	Ph	Display and buzzer confirms.	Programming menu <or> for options</or>	ĽIJ))×2		
Scroll < or > to select the receiver setup option.	È	Display scrolls through options.	Receiver Setup <			
With "Receiver Setup" on the display, press and release <b>D</b> .	B	Display shows current option status.	Receiver Setup Quick learn	IJ))×1		
Scroll < or > to select the Diagnose Remotes option.	A B	Display scrolls through options.	Receiver Setup Diagnose Remotes	∭)×1		
With "Diagnose Remotes" on the display, press and release <b>I</b> .	(Th)	Display prompts you to press and release a remote button.				
After prompt.		Display shows a signal strength graph and waits for a remote transmission.	Signal: Not recognised			
Press and release remote	2	If the remote button is in the memory the display will confirm the signal strength, user address and function of that button. The higher the graph goes, the stronger the signal.	Signal: Adr: 1 Func: BT			
Press and release remote that you are testing.		If the remote button is not in the memory the display will confirm the signal strength and confirm the remote is not recognised.The higher the graph goes, the stronger the signal.	Signal: Not recognised			
Multiple remote buttons can	be tested by repeating	the last step above here				
Press and hold the X button when finished testing.	(A)	Display Diagnose Remotes optionhas been exited and buzzer beeps.	Diagnose Remote Exited	IJ))×1		
Release X button.		Display reverts to Receiver Setup options.	Receiver Setup Diagnose Remote			
Scroll left or right to next program option.	By C	OR OR	EXIT back to receive setup	r (Th)	Receiver Setup Diagnose Remotes	

Receiver Setup	Receiver programming and setup. Receiver information.						
From Standb	y status	- "Selected" mode - - Standby	"Selected" mode - - Standby The gate can be in any position when performing this rout				
Action			Res	ponse			
Action	-	Description	Display	Buzzer	Gate		
To enter the program menu. Press and hold the button until buzzer beeps.	Br	Display and buzzer confirms.	Programming menu <or> for options</or>	IJ))×2			
Scroll < or > to select the receiver setup option.	ÐÐ	Display scrolls through options.	Receiver Setup < □ = change >				
With "Receiver Setup" on the display, press and release <b>D</b> .	R	Display shows receiver setup options.	Receiver Setup Quick learn				
Scroll < or > to select the Receiver info option.	BB	Display changes respectively.	Receiver Setup Receiver info				
With "Receiver info" on the display, press and release	Ph	Display begins toggling between the number of user addresses used out of the total memory and the software version.	Receiver Info used: 1 of 1023 Receiver Info Software ver: 2				
Press and release X to exit back to receiver setup options.	(A)	Display changes back to main receiver setup options level and buzzer beeps.	Receiver Setup Receiver info	IJ))×1			
Scroll left or right to next program option.	Ph C	OR OR	EXIT back to standb status	. Du	"Selected" mode - Standby		

Advance programming options and their definitions.						
	This option allows you to increase or decrease the distance the gate crawls at low speed for, before					
Crawl Distance.	reaching the ends of travel. Please note that the gate must "coast" first to reach crawl speed. the distance set here is only the crawl distance. The coast distance will automatically adjust according to the full speed potential of each gate. A light gate that is "dragging" due to high resistance will manifest a sudden reduction in speed from further away. Where as a heavy gate that is free flowing will take longer to reduce speed and thus overrun the crawl distance. In the case of a light gate losing momentum rapidly when coasting, consider using larger wheels.					
Positive Close Mode.	This option allows you to select that the gate continues to surge onto the physical closed stopper after seeing the closed limit. There are five levels of positive closed force. 1 - light to 5 - hard. Use this option with gates that have electric fencing contacts or electric locks for example.					
	Lock mode - This option allows you to control either a electro-mechanical lock like an electric rim lock or a magnetic lock. The relay on time can be adjusted in strike lock mode.					
Aux Relay Setup.	<b>RX1 Module</b> - This option allows you to combine the third channel of the receiver with the auxiliary relay to operate like an ET RX1 receiver. The relay can be set to latch mode or the on relay on time can be adjusted to any time between 1 and 60 seconds. The receiver is a single shot receiver.					
	Light switch - This option is used as a switch in the driveway lighting circuit where the lights will come on as the gate opens and will switch off after the gate has closed again. In this mode the third channel of the receiver when triggered will switch the auxiliary relay no matter the gate position. There are two on times which are adjustable. Light on time whenever gate opens and light on time when remotely triggered.					
Power Settings.	Battery charger - This option allows you to disable the battery charger where a larger capacity intelligent charger has been installed additionally to maintain the battery level of additional batteries larger than 7Ah. By disabling the built in charger you remove any possibility of interfering with the external charger's diagnostics thus optimising the external battery and charger's performance.					
	AC monitoring - This option allows you to disable the Vac mains failure monitoring on sites where a solar panel system has been installed to maintain the battery.					
	LCD Contrast Adj - This allows you to adjust the contrast between the text and the background of the LCD display.					
	Number of limits - In some applications the safety requirements call for a limit to be at either end of the gate travel. In these cases a second limit kit can be installed and the control card can be set here to use both an open and a closed limit switch.					
Controller setup.	Alarm output setup - The Drive series of operators, monitor for tampering conditions namely; safety beam tampering, gate lifted in all of the series and gate kept open for too long in the case of the Drive 500, 600 and 1000 Gate jammed open - Use this feature to adjust the length of time the gate is permitted to remain open for before the alarm activates. On board alarm - Use this feature to enable or disable the on board buzzer sounding whenever the alarm activates. Alarm output invert - Use this feature to set the alarm output to switch to 0V (Disable) or switch from 0V (Enable) in an alarm condition.					
	BT on-board - Use this feature to enable or disable the on-board BT button					
	Wired RT Fnable - Use this feature to enable or disable the hardwired RT input					
	Wired BFD Enable - Use this feature to enable or disable the hardwired brindpat.					
	Leon in Enable . Use this feature to enable or disable the hardwired loop input.					
	PIRAC Quick Close - In the case of a need for a longer autoclose time being available for users to get to that gate, yet the gate must close quickly after they have passed the safety beams, the PIRAC quick close can be used.					
	PIN Code lock-out - Use this feature to prevent any access to the programming menus.					
	Serial number - Use this to view the control card serial number.					
	Cycle count - Use this to see how many times the gate has been operated. This counter cannot be reset in the field.					
	Event log - Use this to see a log of the most recent gate open and close operations.					
	Fault log - Use this to see a log of the last 30 fault conditions.					
Controller info	Trigger log - Use this to see a log of the last 30 triggers.					
	Last overload info - Use this to see the recorded position of the last gate overload.					
	Firmware version - Use this to see the control card firmware version.					
	Firmware date - Use this to see the control card firmware date.					
	Hardware version - Use this to see the control card hardware version.					
IEC Standards	Use this feature to enable or disable IEC safety standards mode.					
	Set restore point - Use this to set a restore point.					
	Restore settings - Use this feature to restore all controller settings to the last saved restore point.					
Reset and Restore	Clear logs - Use this feature to clear the event, fault and trigger logs. NB! this does not clear the cycle counter.					
	Factory reset - Use this feature to default all controller settings to factory settings. NBI this does not factory reset the receiver memory or clear the cycle counter.					

Basic operating features.

In the case of the gate colliding with an obstruction such as a person passing through the entrance way, the collision sensing will automatically detect the collision and the system will run a safety overload routine. Safety overload routine while gate is opening. Action Response Gate collides with a Gate stops pedestrian for example. opening. Gate reverses momentarily Once gate has stopped. No buzzer tones. to release pressure. Gate stops and After reversing waits for next No buzzer tones. momentarily. trigger to close. Safety overload routine while gate is closing. Action Response Gate collides with a Gate stops х1 pedestrian for example. closing. Gate reverses Once gate has stopped. back to the full No buzzer tone. open position. Gate remains in the full open After reversing to the position until No buzzer tone. full open position. the next trigger to close.

#### Safety infra-red beams function. User manual reference -**Basic operating** Page 7 All modes except P.I.R.A.C. features If the safety beam input has been switched on, the control card will constantly monitor to ensure a set of safety beams is installed. NB! The BT input mode cannot be changed to anything other than 'Standard" mode and loop trigger cannot be enabled until the safety beams have been configured. Below is an example of how the gates will behave whenever the safety beam input is activated. Gate closed. Action Response Gate begins Momentary BT trigger. No buzzer tones. opening. Safety beam input Gate continues triggered while gate is No buzzer tones. opening opening. At full open position. Gate stops and Safety beam input still waits for next No buzzer tones. triggered. trigger to close. Trigger is ignored and Momentary BT trigger. No buzzer tones. gate remains open. Gate remains in the full open Safety beam input position until No buzzer tone. cleared. the next trigger to close. Gate begins Momentary BT trigger. No buzzer tone. closing. Safety beam input while Gate stops and No buzzer tone. the gate is closing. reverses open. Gate stops and At the full open waits for next No buzzer tone. position. trigger to close. Gate begins Momentary BT trigger. No buzzer tone. closing.

Basic operating "B features			BT" Button tri Standard mo	ggers. de.	User manual reference - Page 8		
The BT functions are the There are three ways of a	primary full gates the states of the states	ate opening functions for "BT" functions on this co	r motor vehicle acc ntrol card. Either v	ess. via the hardwired BT input, on	board BT or the BT receiver channel.		
In Standard mode the gai In Standard mode you ha	tes respond to ve access to t	each BT trigger. he following advanced fe	atures: - Holiday l	ock-out and Party mode.			
Gate closed.							
	Action			Response	e ~		
Momentary BT trigger.			Gate begins opening.	No buzzer tones.			
At full open position.			Gate stops.	No buzzer tones.			
Momentary BT trigger.			Gate begins closing.	No buzzer tones.			
Momentary BT trigger.			Gate stops and immediately starts opening again.	No buzzer tones.			
Momentary BT trigger.			Gate stops.	No buzzer tones.	0		
Momentary BT trigger.			Gate begins closing.	No buzzer tones.			
At full closed position.			Gate stops.	No buzzer tones.			





User manual refe Page 11	User manual reference - "BT" Button triggers. Page 11 P.I.R.A.C. auto-close mode.				Basic operating features		
The BT functions are the There are three ways of a	primary full ga activating the '	ate opening functions for 'BT" functions on this co	r motor vehicle acc ntrol card. Either v	ess. via the hardwired BT input, on	board BT or the BT receiver channel.		
In P.I.R.A.C. auto-close mo beam triggers while the g is in operation.	ode, all BT trig gate is opening	gers are treated as per si g. Below is an example o need features are availab	mple auto-close. T of P.I.R.A.C. auto-cl le <sup>,</sup> - Holiday lock-o	he difference in this mode is h ose mode when the safety be ut and Party mode	ow the system responds to the safety am circuit is triggered while the gate		
<b>NB!</b> For any auto-close feinstalled then the gates w	ature to work vill open but n	, a pair of safety infra-re ot close again.	d beams must be i	installed and functioning corre	ectly. If no safety infra-red beams are		
Gate closed.							
	Action			Response	9		
Momentary BT trigger.			Gate begins opening.	No buzzer tones.			
Safety beam circuit triggered while gate is opening.			The gate continues opening.	No buzzer tone.			
Safety beam circuit cleared while gate is opening.			Gate stops and immediately starts closing again.	No buzzer tones.			
Safety beam circuit triggered while gate is closing.			Gate stops and immediately starts opening again.	No buzzer tones.			
Gate reaches open position while safety beam circuit is still triggered.		<b>A</b>	Gate remains open waiting for safety beam circuit to be cleared.	No buzzer tones.			
Safety beam circuit cleared while gate is in the open position.			Auto-close timer starts counting down.	No buzzer tones.			
Auto-close timer times out. Safety beam circuit not triggered.		0 sec.c.	Gate begins closing.	No buzzer tones.			
At full closed position.			Gate stops.	No buzzer tones.			





Basic operati	ng		"Loop" triad	le <b>r</b> .	User manual reference -		
The Loop trigger mode is	exactly the sa	nme as Condominium au	to-close mode.		Page 14		
The only way to trigger lo	op detector n	node is via the hardwire	d LPT input.				
In Loop detector mode, a the gates are running. Th reach the closed position	LPT trigger is le gates will o again.	treated as open, and an nly close once the auto-	y BT or LPT triggers close timer has tir	are treated as a keep openir ned out. The loop mode tran	ig, keep open or re-open trigger while saction will only clear once the gates		
<b>NB!</b> For any auto-close fe installed then the gates w	ature to work vill open but n	k, a pair of safety infra-re not close again.	ed beams must be i	installed and functioning corr	ectly. If no safety infra-red beams are		
Gate closed.							
	Action			Respons	e		
Loop trigger.	Ŷ		Gate begins opening.	No buzzer tones.			
Momentary BT trigger or Loop trigger while gate is opening.	<u>्</u> र्		The trigger is ignored and the gate continues opening.	No buzzer tone.			
At full open position.			Gate stops and auto-close timer starts counting down.	No buzzer tones.			
Momentary BT trigger or Loop trigger while gate is open.	<u>ः</u> . १७३		Gate remains open and auto- close timer resets.	No buzzer tones.			
Auto-close timer timeout. Safety beam input not triggered.			Gate begins closing.	No buzzer tones.			
Momentary BT trigger or Loop trigger while gate is closing.			Gate stops and immediately starts opening again.	No buzzer tones.			
At full open position.			Gate stops and auto-close timer starts counting down.	No buzzer tones.			
Auto-close timer timeout. Safety beam input not triggered.		0 sec.c.	Gate begins closing.	No buzzer tones.			
At full closed position.			Gate stops.	No buzzer tones.			

User manual reference - Aux Page 15 S			ixiliary relay r Strike lock me	nodes. ode.	Basic operating features				
With Strike lock mode se	With Strike lock mode selected, the auxiliary relay will pulse for the preprogrammed on time, half a second before the gate opens.								
Whenever a lock is install can damage the charger a	ed with the sy and battery of	ystem, a separate battery the control unit.	y backed up power	supply matching the lock loa	d must be installed. Failure to do this				
Below is an example of st	rike lock mod	e when standard BT mod	le is active.						
Gate closed.									
	Action			Response	)				
Momentary BT trigger.			Auxiliary relay activates.	No buzzer tone.					
Half a second after the auxiliary relay has activated.		0.5 sec.	Gate begins opening.	No buzzer tone.					
After the preprogrammed relay on time.		I sec.	Auxiliary relay deactivates and gate continues opening.	No buzzer tone.	OFF M/C				
Gate reaches open position.			Gate stops.	No buzzer tone.					
Momentary BT trigger.			Gate begins closing.	No buzzer tone.					
At full closed position.			Gate stops.	No buzzer tone.					

Basic operati features	ng	Au M	xiliary relay r lagnetic lock i	nodes. node.	User manual reference - Page 16
With Magnetic lock mode the gate has closed again	With Magnetic lock mode selected, the auxiliary relay will activate half a second before the gate opens and remain activive until half a second after the gate has closed again.				
Whenever a lock is install can damage the charger a	led with the sy and battery of	ystem, a separate battery the control unit.	/ backed up power	supply matching the lock loa	d must be installed. Failure to do this
Below is an example of m	agnetic lock r	node when standard BT i	mode is active.		
Gate closed.					
	Action			Response	2
Momentary BT trigger.		A Contraction of the second se	Auxiliary relay activates.	No buzzer tone.	
Half a second after the auxiliary relay has activated.		0.5 sec.	Gate begins opening.	No buzzer tone.	
Gate reaches open position.			Gate stops.	No buzzer tone.	
Momentary BT trigger.			Gate begins closing.	No buzzer tone.	
At full closed position.			Gate stops.	No buzzer tone.	
Half a second after gate has reached the full closed position.		0.5 sec.	Auxiliary relay deactivates.	No buzzer tone.	OFF M/C com ON/O

User manual refe Page 17	rence -	Au C	uxiliary relay r ourtesy light i	nodes. node.	Basic operating features
With courtesy light mode the gate has closed. The auxiliary relay can als the auxiliary relay function The relay on time for the Below is an example of co	With courtesy light mode selected, the auxiliary light will switch on as the gate begins opening and remain on for the programmed light on time after the gate has closed. The auxiliary relay can also be triggered to switch on without the gate opening by simply pressing and releasing any remote button programmed into the auxiliary relay function of the receiver. The relay on time for the two different triggers can be programmed to different on times if wanted.				
	Gate closed.				
	Action			Respons	е
Momentary BT trigger.			Auxiliary relay activates.	No buzzer tone.	
			Gate begins opening.		
Gate reaches open position.			Gate stops.	No buzzer tone.	
Momentary BT trigger.			Gate begins closing.	No buzzer tone.	
At full closed position			Gate stops.	No buzzer topo	
At fuil closed position.			Relay on timer begins counting down.	no buzzer tone.	3 Min.
After relay on timer timeout.	(		Auxiliary relay deactivates.	No buzzer tone.	
If the gate is closed	and any rem	ote button prog the	rammed into t following will	he auxiliary relay func occur.	tion is pressed momentarily,
Auxiliary relay status	ŀ	Action		Respons	e
OFF ON/C Cerro ON/O	Momentary auxiliary relay trigger.		Auxiliary relay switches on for programmed time.	No buzzer tone.	Com ON/C
	Momentary auxiliary relay trigger.		Auxiliary relay switches off.	No buzzer tone.	CRM OK/C

# Auxiliary relay modes. Receiver relay mode.

With receiver relay mode selected, the auxiliary relay will operate in exactly the same way as a single channel receiver would, whenever a transmitter button programmed into the "Auxiliary Relay" receiver function is pressed and released.

Latch mode. The transmitter must be released and pressed again to reactivate the relay each time.				
Action			Response	
Momentary relay trigger.		Auxiliary relay switches on.	No buzzer tones.	<b>ON</b> (14/2) Cerr() (14/2)
Momentary relay trigger.		Auxiliary relay switches off.	No buzzer tones.	OFF M/c cen Ou/o

One shot pulse mode. The transmitter must be released and pressed again to reactivate the relay each time.				
Action			Response	e
Momentary relay trigger.		Auxiliary relay switches on.	No buzzer tones.	
Relay timer timed out.	0 sec.c.	Auxiliary relay switches off.	No buzzer tones.	0FF 0%/c cemo 0%/0

User manual refer Page 19	rence -	Р	ositive close r	node.	Advanced features
With positive close mode This feature is useful whe closed position.	activated, the n installing an	e gate will surge onto the n electric lock or when ti	closed stopper aft rying to ensure an	er seeing the closed limit. electric fencing gate contact	always closes when the gate is in the
	Action			Response	
Momentary BT trigger.			Gate begins opening.	No buzzer tones.	
At full open position.			Gate stops.	No buzzer tones.	
Momentary BT trigger.			Gate begins closing.	No buzzer tones.	
Momentary BT trigger.			Gate stops.	No buzzer tones.	
Momentary BT trigger.			Gate begins opening.	No buzzer tones.	
Momentary BT trigger.			Gate stops.	No buzzer tones.	•
Momentary BT trigger.			Gate begins closing.	No buzzer tones.	
At full closed position.			Gate stops.	No buzzer tones.	
When gate has stopped on the closed limit.			Gate physically surges onto the mechanical closed stopper.	No buzzer tone.	

Advanced featur	es		Holiday lock-ou	ıt mode.	User manual reference - Page 20
This feature is useful at tin service company, for exte on holiday. With holiday I kept locked intentionally.	nes when a nded perio ock-out mo As soon as	ccess to the ds of time. ode active, a the holiday	property needs to be disallowe An example of when the holida any trigger on any input will sin lock-out mode is deactivated,	ed to secondary level key holders y lock-out function would be use aply result in the control card be the system will resume normal c	, such as housekeepers or the garden eful is when the home owner is away reping to indicate the gates are being operation.
Holiday lock-out will only Holiday lock-out is not ava	work in the ailable in co	e closed pos ondominium	ition. 1 mode.		
Gate	Gate must be closed to start.				
Actio	n			Response	
Momentary trigger from any transmitter button programmed into holiday lock-out function.		24	Buzzer begins toning and status LED comes on.	(山))) x 5 sec.	
BT button while buzzer is sounding to confirm that you want to activate holiday lock- out. If no BT button is pressed during this 5 second window, the holiday lock-out status will not change.	• (°1)		Buzzer and status LED beep/ flash rapidly.	الله x 5 rapid. گەڭەگەڭەگە	
Any BT, Loop or PED triggers.			Gate does not open. Buzzer, status LED.	山))) x 5 rapid. ざんざんざんざんざん	
Momentary trigger from any transmitter button programmed into holiday lock-out function.			Buzzer begins toning and status LED comes on.	x 5 sec.	
BT button while buzzer is sounding to confirm that you want to deactivate holiday lock-out. If no BT button is pressed during this 5 second window, the holiday lock-out status will not change.			Buzzer beeps, status LED reverts to gate running indication and gate begins opening.		
Normal operation is now functional.					





# Advanced features Gate kept open too long alarm. User manual reference -Page 22 In a cases where the user would like to be notified of the gate being kept open for longer than a predetermined time period, the gate jammed open alarm can be setup. The alarm condition will reset to off when the gate is closed again. Image: Constraint of the gate being kept open for longer than a predetermined time period, the gate jammed open alarm can be setup. The alarm condition will reset to off when the gate is closed again. Action Response Gate prevented from closing. Image: Constraint of the gate being kept open for longer than a predetermined time period, the gate jammed open standby status. Image: Constraint open for longer than a predetermined time period, the gate jammed open alarm can be setup. The alarm condition will reset to off when the gate is closed again.

After programmed gate jammed open time.	20 sec.	Alarm output activates.	can be disabled.	On
Gate returns to full closed position.		Alarm output returns to standby.	×	Off

User manual refere Page 23	ence -	Gate forced open alarm.			Advanced features
In a case where the gate the gate the gate is returned to no	is physically ormal secur	y lifted off its track and ed condition in the clo	I forced open, the ala sed position.	arm output will immediately acti	ivate. The alarm will only reset when
	Action			Response	
Gate secured in the closed position. Standing by.		<b>Å</b>	Alarm output remains in standby status.	×	Off
Attempt to lift gate off track and force open.			Alarm output activates.	Built in buzzer sounding can be disabled.	On
Gate resecured in the closed position. Standing by.			Alarm output returns to standby.	×	Off

Status LED indications and buzzer guide.				
Description	Visual confirmation	Buzzer	Reason	
Static off.	Off	None	Gate fully closed.	
Flashing slow 1 second on and 1 second off.	On Off On Off On Off On Off On Off On Off I sec I sec	None	Gate running normally.	
Static on.	On	None	Gate open.	
2 x 500ms flashes followed by a 2 second pause.	Mause Marause	1 x 1 second beep every 15 seconds for 5 minutes after last gate transaction.	AC mains off. Restore AC as soon as possible.	
4 x 500ms flashes followed by a 2 second pause.	Mause	None.	Battery low. Allow at least 8 – 10hr uninterrupted charge before checking again.	
5 x 125ms second rapid flashes each time a trigger is received.		Mimics LED.	A lock-out mode is active. Press and release any holiday lock-out button to deactivate.	

<b>TI</b> 1		Diagnostics Menu	
inis mei	nu allows you	to monitor certain key parameters while	e the gate is running or stopped.
		The current speed of the motor in meters per	The higher the gate resistance, the lower the gate
speed:	m/min	minute.	speed.
Distance:	m	The distance moved from the closed position.	This can be anything up to 99m.
Motor Cur:	А	The current that is being drawn by the motor.	The higher the gate resistance, the more current the motor will draw to run the gate.
Force:	Ν	The force being applied to the rack by the motor.	This will drop as the gate momentum takes over.
PSU:	v	The PSU voltage. This will not show when no PSU is installed.	This should be between 16 - 19v.
AC:	v	The AC input voltage, this will also show when a PSU is installed.	This should be between 16 - 19v.
Aux 12v:	v	12v auxiliary output voltage.	This should be stable at 11 - 14.5Vdc.
Aux A:	A	The total current being drawn by devices connected to the 12v auxiliary.	Only available when mains is present.
Dowor Supply	PSU	Motor power is being supplied by the PSU.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
Power Supply:	Bat	Motor power is being supplied by the battery.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
	v	Battery voltage.	This may seem to pulse, this is part of the charge sequence.
	Supply	Battery charger status: Battery is the supply.	This will vary depending on the status of the mains power supply and/or the intelligent charger stage.
	Bulk Charge	Battery charger status: Charge is at bulk charge stage.	High voltage and high current charge stage. (Boost)
	Topup Charge	Battery charger status: Charge is at top-up charge stage.	High voltage and low current charge stage. (Saturation)
	Float Charge	Battery charger status: Charge is at float charge stage.	Low voltage and low current charge stage. (Maintenance)
Bat:	Curr limit	Battery charger status: Charger is in current limiting.	Battery is level is very low or there is a battery wiring fault.
	Err FET shrt	Battery charger status: The charger FET has failed.	Return control card for repair.
	Turned off	Battery charger status: Charger turned off in menu.	This is configured by the installer. Change if necessary.
	Short	Battery charger status: There is a short across the battery terminals.	Remove short or replace faulty battery.
	Removed	Battery charger status: No battery plugged in.	Install battery.
	Check Supply	Battery charger status: The supply is too low to power charger.	Correct/repair the primary supply.
	Paused	Battery charger status: Charger paused because gate running.	The charger is disabled while gate is running.
	ERROR	Battery charger status: Another error has occurred.	Contact ET NICE for assistance.
Charge Cur:	А	Indicates the battery charge current.	All is good.
Temp:	°C	Indicates the PCB temperature (Accurate to 5 <sup>o</sup> c)	Acceptable range -10° to 60° Celcius.
	STD	Gate is in standard mode, no auto-close.	Change if necessary.
	A-Clos	Gate is in Auto-close mode.	Change if necessary.
Gate Mode:	CONDO	Gate is in condominium mode.	Change if necessary.
	PIRAC	Gate is in PIRAC mode.	Change if necessary.
	CONPIR	Gate is in Condo + PIRAC mode.	Change if necessary.
Cycle count:	*****	Total number of gate operations since production.	This counter can only be reset in the factory.
Recent Rx =		Shows the last received remote user trigger.	This is useful when trying to track down a false trigger.
Freedor	= South		This should change as the encoder rotates, use to
Encoder	= North	indicates the encoder direction.	check encoder is working by rotating motor by hand.

Troubleshooting guide and display definitions.				
Displayed on screen.	Definition.	Solution.		
AC mon disabled	AC power monitoring disabled by the installer.	Only use when installing a seperate charger system.		
Address used <no replace="" yes=""></no>	Selected address is already used by another remote, would you like to replace it?	If yes is selected, the new code will overwrite the current code in memory.		
Alarm Activated	The alarm output has been activated.	Clear alarm condition.		
Aux voltage high	Auxiliary 12v output is too high.	Hardware error or external connection supplying higher voltage.		
Aux voltage low	Auxiliary 12v output is too low.	Hardware error or external connection drawing too much current		
Backing Off	Motor backing off slightly after overload to prevent gear system jamming up.	Remove physical obstruction.		
BAT voltage high	The battery voltage is out of specification - too high.	Most likely due to a charger fault external connection supplying higher voltage.		
Battery short	There is a short on the battery output.	Faulty battery or battery wiring.		
Beam interrupted	Gate action caused by the beam being interrupted.	Clear gate area to close gate.		
Brown out Reset	Processor reset due to low supply voltage.	Check power supplies for low power failings.		
Charg supply low	The supply voltage is too low for the charger to operate correctly.	Charger requires a minimum of 16V primary supply.		
Charger disabled	Charger disabled by the installer.	Change if necessary.		
Check beams	Possible error on the beam circuit preventing gate auto-close in PED mode.	Clear gate area, repair beams or beam wiring.		
Close Run Ovload	A current overload occurred during the full speed portion of travel while the gate was closing.	Remove physical obstruction.		
Close Slo Ovload	A current overload occurred during the crawl portion of travel while the gate was closing.	Remove physical obstruction.		
Close Stall(enc)	The gate stalled (encoder counting no longer detected) while closing.	Remove physical binding.		
Collision Lckout	More than 4 collisions detected in a row, 10s timer prevents subsequent triggers.	Remove physical obstruction.		
Condominium Mode Lock not allowed	Holiday lockout not allowed in Condominium mode.	Change BT mode to a mode that allows holiday lock- out.		
Crawl distance = 0mm	Crawl distance is the distance the gate runs as slow speed at either end, longer crawl improves safety.	Use longer crawl distances for heavier free moving gates.		
Enable beam for auto-close	auto-close can not be used without beams.	This is for safety, an IEC requirement.		
Encoder error	There was an error detecting the motor encoder.	Ensure control card and ring magnet are securely fastened.		
Erase address Comms Error	No data seen on RF.	If persistent, bring control card in for repair.		
Erase ALL Comms Error	An error occurred when trying to communicate to the receiver module.	If persistent, bring control card in for repair.		
ERROR: BAT voltage too high	BAT voltage high error. (when trying to run gate)	The BAT voltage is too high and may cause damage to the motor drive circuitry.		
ERROR: No PSU or Battery	Only low current power supply available.	No PSU or battery attached. Check wiring.		
ERROR: PSU voltage too high	PSU voltage high error. (when trying to run gate)	The PSU voltage is too high and may cause damage to the motor drive circuitry. Check 220Vac supply.		
ERROR: RF comms	No data seen on RF.	If persistent, bring control card in for repair.		
Factory Reset	A factory reset was performed.	Reconfigure control card programming and setup.		
Find Limit	The gate is searching for the limit.	Allow gate to continue all the way closed.		
Finding closed limit	Gate is running slowly to the closed limit.	Allow gate to continue all the way closed.		
Flash mem error Reprogram board	Flash memory corrupt, reprogram the board.	Bring control card in for repair.		
Gate re-profile required	The gate run-time setup needs to be re-done.	This is required when changing parameters that affect how the gate runs and hence the overload sensing.		
Holiday LOCKED	Holiday Lockout enabled.	Deactivate as per page 43.		
IEC Mode Error No Beams	IEC mode has been enabled but there is an error.	Beams have been removed after enabling IEC mode, repair beam circuit.		

Displayed on screen.	Definition.	Solution.
III opcode Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.
Learn Abort	Indicates that Learning gate length failed.	Restart runtime setup.
Learn Aborted	Runtime setup aborted for some reason.	Restart runtime setup.
Learn Error Beam	Runtime setup failed because the beams were interrupted.	Restart runtime setup.
Learn Error Button Exit	Runtime setup failed because exit button was pressed.	Restart runtime setup.
Learn Error Gate Too Long	Runtime setup failed because gate length is >40m.	Reduce gate opening distance before attempting runtime setup again.
Learn Error Gate Too Short	Runtime setup failed because gate length is <1m.	Increase gate opening distance before attempting runtime setup again.
Learn Error Limit Range	Runtime setup failed because the limit is out of range.	Limit moved or considerable rack jumping. Refasten limit actuator.
Learn Error Manual Released	Runtime setup failed because manual release lever was actuated.	Re-engage manual override or repair manual override monitoring circuit.
Learn Remote Err: Time-out	No ET Blue or ET BluMix remote detected within 2s.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Learn Remote Err:Decode error	Invalid remote detected.	You can only use ET Blue or ET BLU MIX transmitters.
Learn Remote Err:RSSI TimeOut	No remote detected within 2s.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Limit faulty	The limit sensor is faulty.	Shown when no limit is found within the expected limit window.
Limit Range Err	Closed limit not detected within an acceptable range.	Limit moved or considerable rack jumping. Refasten limit actuator.
Manual Released	Manual release lever activated.	Re-engage manual override or repair manual override monitoring circuit.
Master clr Reset	Processor reset due to a hardware reset.	If persistent, bring control card in for repair.
No hi cur source	No current source present to run the motors.	Ensure either a battery or the PSU is connected.
None	No log item recorded yet.	A log will automatically build as the system is used.
Open half	Gate is open halfway in "BT" Standard mode.	Page 33.
Open PED	Gate is open to the PED distance.	Pages 37 and 38.
Open Run Ovload	A current overload occurred during the full speed portion of travel while the gate was opening.	Remove physical obstruction.
Open Slo Ovload	A current overload occurred during the crawl portion of travel while the gate was opening.	Remove physical obstruction.
Open Stall(enc)	The gate stalled (encoder counting no longer detected) while opening.	Remove physical obstruction.
Over temperature	The board experienced an over temperature situation.	This will clear when temperature returns to normal.
Gate Ovrload E1	Gate has overloaded.	There could be an obstruction in the path of the gate, try increasing "Overload Setting"
Ped auto-close disabled	If beams are disabled Ped auto-close will also be disabled, This is an IEC standard.	Install a set of beams to facilitate any auto-close function. Pages 15 and 19.
Ped auto-close enabled = 2s	If beams are enabled Ped auto-close is enabled by default for added security.	Page 38.
Ped length reset to gate length	If the gate length is changed to be shorter than the PED length then PED length is shortened.	Pages 18 and 21.
PED Mode Setting <   00mm >	Displays whether PED mode is in Auto-close or standard mode and what the distance is set to.	Pages 37 and 38.
Pedestrian open distance: 00mm	The distance the gate will open on a pedestrian trigger.	Page 21.
Power error braking	Device is about to shut down due to low power, motor is slowing down.	Low AC, PSU and Bat voltages.
Power error resetting	Device is about to shut down due to low power, processor is waiting to reset.	Low AC, PSU and Bat voltages.
Power on Reset	Processor reset due to being powered up.	Wait for display to show "Standby" before continuing.
Program Run-time	Gate run time has not been programmed before trying to run gate.	Page 18.

Displayed on screen.	Definition.	Solution.
PSU voltage high	The PSU supply voltage is out of specification - too high.	Check mains input is < 245Vac.
QC test passed	Quality Control test was passed.	Continue to use system as per normal.
Ramp Open Stall	The gate stalled while ramping up in the open direction.	Remove physical obstruction.
Remote not Learnt	Learning error.	Check that you are using a matching frequency ET Blue or ET BLU MIX transmitter that is functional.
Restore settings	Backed up settings were restored.	Page 30.
Run-time NOT set	Please perform a runtime setup before attempting to run the gate.	Page 18.
Finding limit	Gate is closing looking for the closed limit.	Allow gate to continue all the way closed.
Set Limit before Ped distance	The PED distance can not be set before the runtime setup has been completed.	Page 18.
Signal: Not recognised	Unknown ET Blue or BluMix TX detected.	Program the remote button into the receiver memory. Page 22.
Software Reset	Processor reset due to a software command.	Continue scrolling through log.
Standby	Motor in standby, everything operating normally.	Continue to use the system as normal.
TRAP Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.
TX already in memory	Remote already in memory, button learnt but at a different address.	Each remote can only occupy 1 memory address.
Watchdog Reset	Processor reset due to a software error.	If persistent, bring control card in for repair.

#### WARRANTY:

- 1. All goods manufactured by ET NICE (Pty) Ltd carry a 12 month factory warranty from date of invoice.
- 2. All goods are warranted to be free of faulty components and manufacturing defects.
- 3. Faulty goods will be repaired or replaced at the sole discretion of ET NICE (Pty) Ltd free of charge. Within the warranty period.
- 4. This warranty is subject to the goods being returned to the premises of ET NICE (Pty) Ltd.
- 5. The carriage of goods is for the customer's account.
- This warranty is only valid if the correct installation and application of goods, as laid out in the applicable documentation accompanying said goods, is adhered to.
- 7. All warranty claims must be accompanied by the original invoice.
- 8. All claims made by the end user must be directed to their respective service provider/installer.

#### The following conditions will disqualify this product from the warranty as laid out above. These conditions are non-negotiable.

- 1. Any unauthorized non-manufacturer modifications to the product or components thereof.
- 2. Any modification to the installation methods described in the installation instructions.
- 3. Any application or use of the product other than the intended use and application described in the product documentation.

#### The following items are not included in the warranty or they carry a special warranty condition of their own.

- 1. The battery (Limited 6 month warranty)
- 2. The motor brushes.
- 3. Damage resultant of wind and other climatic influences such as lightning strikes.
- 4. Damage due to high voltage surges on the household mains or short circuiting of the gates to the electric fencing.
- 5. Damage due to infestation i.e. Ants nesting...
- 6. Water damage. It is the responsibility of the installer to ensure the product is installed in a location that is protected from water ingress. The ingress protection rating is specified in the accompanying documentation. Housings that require that cable entries are made by the installer do not carry an ex-factory ingress protection rating as it is the responsibility of the installer to seal the cable entry points after installation of the cabling.

For further product documentation, such as the sales brochure, visit our webpage by scanning either of the QR codes here:







Drive 600