

Domestic sliding gate operator by ET SYSTEMS.

USER GUIDE



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Glossary of terms used in this manual.	
BT	Button trigger or full operation trigger for vehicle access.
PD or PED	Pedestrian operation trigger
BM	Safety infra-red beam set for the detection of objects in the path of the gate.
TX	Remote transmitter / remote control
RX	Radio receiver for remote transmitters
LED	(Light emitting diode) visual light indicator
Condo	Condominium or Complex mode
Loop	A metal detector loop (antenna) for the detection of motor vehicles installed in the driveway surface.

GENERAL SAFETY OBLIGATIONS TO THE INSTALLER AND END USER.

- Caution! It is important for personal safety to follow all the instructions carefully. Incorrect installation or misuse may cause serious personal harm.
- Keep the instructions in a safe place for future reference.
- This product was designed and manufactured strictly for the use indicated in this documentation. Any other use not expressly indicated in this documentation, may damage the product and/or be a source of danger.
- We accept no responsibility due to improper use of this product.
- Care must be taken not to install this product in an unsafe environment. I.e. near inflammable gases and or fumes.
- We will not accept responsibility if the principles of good workmanship are disregarded by the installer. The construction of the gate must be sound and automatable. It is the responsibility of the installer to ensure that all mountings to the gate are sufficient to withstand the necessary forces in cases of overload.
- Before carrying out any work on the product, ensure that the electrical supply is switched off.
- It is highly recommended that a set of safety infra red beams be used in conjunction with this product.
- We accept no responsibility regarding safety and correct operation of the automation if other manufacturer's equipment is added to this product.
- Do not make any modifications or alterations to this product.
- It is the responsibility of the installer/ service provider to completely instruct and demonstrate the proper use of this product, especially the emergency override, to the end user. It is also the responsibility of the installer/ service provider to issue all end user documentation, which accompanies this product, to the end user.
- It is the responsibility of the installer to instruct the end user on the proper maintenance of the operating system and its components. i.e. The clearing of gravel from the track, testing the manual override regularly, testing the gate travel manually for variance in load.....etc.
- Ensure that other persons, especially children are clear of the gate and opener before and during operation.
- Keep remote transmitters away from children to prevent accidental activation of the system.
- The end user should refrain from attempting to make any repairs or adjustments to the system and should contact professional qualified assistance timorously.
- Anything other than expressly provided for in these instructions is not permitted.
- The electrical supply to this product must comply with the local electrical code of practice and any electrical work must be carried out by a qualified electrician.
- Over and above the recommendation to use safety infra red beams with this product it is mandatory to ensure a set has been installed and is in proper working condition when using the automatic closing feature.

Manually overriding the gearbox to be enable movement of the gate by hand.



The manual release in the open position also deactivates the electronic control. To operate the unit normally the release door must be fully closed.

Remember to gently push or pull the gate until the gearbox re-engages before running the motor. The gears will lightly click into place.

OPERATING MODE OPTIONS.

For further information about how your UMPETHA has been configured please refer to your service provider/installer.

Mode	Standard (Four step logic)
	<p>When the motor is activated using any BT input the gate will open or close and can be stopped in mid cycle using any BT input again.</p> <p>The gate can then be reversed by activating the BT input again.</p> <p>In this mode the gate will remain open where it has been stopped either by button or open limit until the BT input is activated again. (No auto close)</p> <p>Party mode is available in this mode. (See additional features below)</p> <p>Holiday lock out is available in this mode. (See additional features below)</p> <p>Master remote programming is available in this mode.</p>

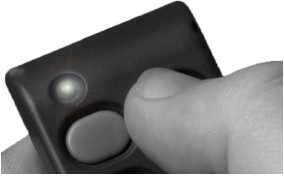
Mode	Simple Auto-close
	<p>As per Standard mode above however the following differs: -</p> <p>The unit times out the pre-programmed auto-close time from any open position after which it begins closing the gate.</p> <p>While closing the gate any BT or BM input will stop and reverse the motor direction back towards the full open position.</p> <p>In any open position while auto-close is timing out a BM input will reset the auto-close timer.</p> <p>Auto-close override/Party mode is available in this mode. (See additional features below)</p> <p>Holiday lock out is available in this mode. (See additional features below)</p> <p>Master remote programming is available in this mode.)</p>

Mode	Complex Auto-close (selected when using a loop detector)
	<p>In this mode any BT input trigger is treated as an opening trigger. On reaching the full open position the unit times out the pre-programmed auto-close time after which it will begin closing the gate.</p> <p>If the BM or BT input is activated while the auto-close timer is running the time will simply reset.</p> <p>On closing any BT input or BM input will re-open the gate to the full open position.</p> <p>USE THIS MODE WHEN CONNECTING A LOOP DETECTOR.</p> <p>This mode excludes Holiday lock-out, Auto-close override/Party mode and Master remote programming.</p>

Mode	P.I.R.A.C. Auto-close
	<p>In this mode the unit will operate as per Simple auto-close above. The added feature here is quick closing once the BM input has been activated and cleared.</p> <p>I.e The gate is opening; a car enters the beams and passes right through. The BM input is now clear again and the gate immediately closes.</p> <p>If the gate reaches the full open position the pre-programmed auto-close timer times out after which the gate will begin closing.</p> <p>This mode includes Holiday lock-out, Party mode/auto-close override and master remote programming except when used in conjunction with Complex auto-close mode.</p>

<p>Courtesy light out Active in all operating modes.</p>

The courtesy light output will activate on any opening trigger (BT or Pedestrian). The light output will remain active until the gate has re-closed. It will switch off 3 minutes after the gate has closed.

Pedestrian opening Available in all modes.		
Action		Response
1. Gate in closed position		
2. Press and release any PED (pedestrian) input.		A) 3 x 1sec beeps after which gate opens to pedestrian opening position. B) At pedestrian opening position pedestrian auto-close timer times out. C) 3 x 1sec beeps after which gate re-closes.
<p>Any further PED (pedestrian) input triggers while the gate is running are ignored except in the pedestrian opening position, where the auto-close timer will simply reset.</p> <p>Any BM (beam) input while the pedestrian routine is running will cause the gate to continue to the pedestrian opening position or reverse back to the pedestrian opening position. If already in the pedestrian opening position, the auto-close timer will simply reset.</p> <p>Any BT (full opening input while the pedestrian routine is running will open the gate to the full open position and the unit will revert to the operating mode selection that has been setup.</p>		

INHERENT SAFETY SENSING SYSTEM

Collision/obstruction/hindrance while opening. (All modes)

If a collision, obstruction or hindrance is encountered before the full open position is reached while opening, the gate will stop, back off and wait for the next trigger input before closing slowly. The status LED will flash rapidly while stationary after backing off of collision. Closing trigger clears LED indication.

Collision/obstruction/hindrance while closing. (All modes)

If a collision, obstruction or hindrance is encountered while closing, the gate will stop and reverse to the fully open position. The next trigger input start the gate closing slowly. The status LED will flash rapidly while stationary after backing off of collision. Closing trigger clears LED indication.

Multiple collision/obstruction lock-outs. (All modes)

On encountering 4 consecutive obstructions while closing the gate, the UMPETHA will not reverse back to the full open position. The response will be a 5 sec beep tone, followed by a gentle momentary reverse away from the obstruction. The unit will now begin a mandatory 30sec lockout whereby the only response to any trigger input will result in a tone so long as the trigger button is held. After 30sec a trigger input will result in a repeat of the 5 sec beep and the gate opening 1 meter or to the full open position whichever is reached first. The unit will once again lock out. This time the user must manual release the unit and test the travel by hand before attempting any further automation of the gate.





The Status LED will flash rapidly throughout this procedure indicating an obstruction has occurred.

Releasing the gearbox and re-engaging it will clear the LED status and the Collision lock out routine.


Collision with closed stopper due to faulty or missing closed limit. (All modes)




If no limit input is made when expected (as calculated by the programmed run time) the UMPETHA will not reverse back to the open position as it normally would when obstructed. It will however stop at the point of impact with the closed catch and emit a 5sec long beep tone. At the next valid opening trigger the UMPETHA will re-emit the 5sec long beep tone and only open the gate by ±1 meter. This will allow for the user to be able to enter the property and manually override the gate. The magnet actuator and limit can now be checked. If not corrected and further attempts are made to operate the UMPETHA with a faulty closed limit condition the same routine will be repeated on every operation. If the user continues to attempt to operate the gate without manually releasing the gearbox while the gate is at the ±1meter position, the result will only be a repeat of the 5sec beep tone.

REGISTERING ADDITIONAL REMOTE USERS ON YOUR UMPETHA.

Learning a TX button for BT (Full opening) operation using the RX Master remote: - (25 user memory)		
<p>The RX Master remote can only be learnt into memory using the RX pins! The RX Master remote is the first remote learnt into the BT memory and it must be able to operate the PED function of the built-in RX as well. Feature not available in Condo/loop mode Feature limited to learning in BT operation transmitters only.</p>		
Action		Response
1. Open gate fully using the RX master remote		Gate runs to full open position and stops
2. Press and hold RX Master remote pedestrian button.		Start of 5sec. Beep. Waiting for new remote trigger.
3. Release RX Master remote pedestrian button		Continues to beep.
4. Press and hold required button on new TX before learn mode timer expires and beep stops.		<p>Long beep changes to..... 2 beeps = Successful there is still memory available Multiple rapid beeps = memory full No beep = Button already in RX memory or non ET Blue TX used.</p>
To continue adding remotes repeat from point 2.		
If no new TX button is pressed within 5sec. Of the continuous beep beginning, then the RX will exit learn mode. All other functions return to normal.		

For additional master remote transmitters or Pedestrian control transmitters contact your service provider/installer.

Auto-close override Party mode Available in all but Complex Auto-close mode.		
Action		Response
1. With the gate at any open position		
2. Press and hold any TX (transmitter) BT (full opening) button		After 5sec unit will emit Multiple rapid beeps to confirm.
3. Release input after beeps		Gate will not begin closing after auto-close time has expired.
4. To deactivate repeat 2 and 3 above		1 x long beep and gate starts closing.
If any PED (Pedestrian) or BT (full opening) input is momentarily activated while the unit is in either Holiday lock-out or Auto-close override/Party mode the unit will only emit the multiple rapid beeps and not run the gate.		

Holiday lock-out Available in all but Complex Auto-close mode.		
Action		Response
1. Close gate		
2. Press and hold the PED (pedestrian) button on a master remote		Until 5sec beep begins.
3. Release PED (pedestrian) button on master remote		Beeping will continue until confirmation or 5sec expires.
4. Press and release BT (full opening) button on the master remote before 5sec beep stop.		1 x multiple rapid beeps will confirm holiday lock-out is active.
To unlock repeat		After multiple confirmation beeps gate will immediately start opening when unlocked.
Holiday lock-out is available only when using a master remote. (No hardwired devices will activate) A master remote is a remote that has BT (full opening) control as well as PED (Pedestrian) opening control. If no BT (full opening) confirmation trigger is received by the time the intermittent beeps stop (5sec.), the gate will not change status.		

Buzzer indications

Beeps	Gate status	Program Jumper	Action	Response Motor	Condition	Solution	Table ref:
5 x Rapid beeps	Full closed	Off	Momentary BT or Ped input	None	Holiday lock-out active	Toggle off	pg 26
Continuou s rapid beeps	Gate anywhere	On	None	None	Holiday lock-out active	Toggle off	pg 26
5 x Rapid beeps	Gate anywhere but closed	Off	Momentary BT or Ped input	None	Auto-close override/party mode active	Toggle off	pg 27
1 x 5sec beep (long beep)	opens 1m and remains there.	Off	Momentary BT or Ped input	None	limit failure	check magnet on gate and limit switch	pg 20
2 x Rapid beeps	Gate anywhere	Off or On	Momentary BT or Ped input	Attempts to run	Battery flat or faulty	Allow recharge and check for Aux devices overload. If problem persists after ±8 hours charging, replace battery	
3 x 1sec. Beeps	Gate closed	Off	Momentary Ped	Gate opens partially	Pedestrian function activated		pg 27
2 x 2sec. Beeps	Gate stopped	Off	Momentary BT	Gate runs	Household mains failure	Restore power supply	
1 x 5sec beep (long beep)	Gate stopped	Off	Any input triggered	None	Multiple collision lock-out	Check gate closing resistance	pg 20
20 x 1sec. Beeps.	Gate stopped	Off or On	First BT input after a reset or Set button in runtime set up	None	No motor movement detected or beam input is active	Check beam circuit or setting. Check gate resistance. Check motor and battery wiring/looms.	pg 19, 20 &14

STATUS LED INDICATIONS.

An extension LED needs to be installed for the end user to make use of this feature.

Off	Gate closed
Slow flash	Gate is running or waiting for auto-close time to time out
On	Gate is open
Rapid Flash	Gate is obstructed or has exceeded max run time.

WARRANTY: All goods manufactured by G&C Electronics cc T/A ET Systems carry a 12 month factory warranty from date of invoice. All goods are warranted to be free of faulty components and manufacturing defects. Faulty goods will be repaired or replaced at the sole discretion of ET Systems free of charge. This warranty is subject to the goods being returned to the premises of ET Systems. The carriage of goods is for the customers 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. All warranty claims must be accompanied by the original invoice. 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.

- Any unauthorized non-manufacturer modifications to the product, components thereof.
- Variations to the installation technique as laid out here-in
- Incorrect application and use of the product.

The following are excluded or limited from the warranty as laid out above.

These conditions are non-negotiable.

- The battery carries a limited 6 month warranty
- The motor brushes
- Acceptable wear and tear.