



# Heavy Duty Rolling Door Openers

GDO-10 Toro™



Featuring **TrioCode™** Technology

automatic  
TECHNOLOGY

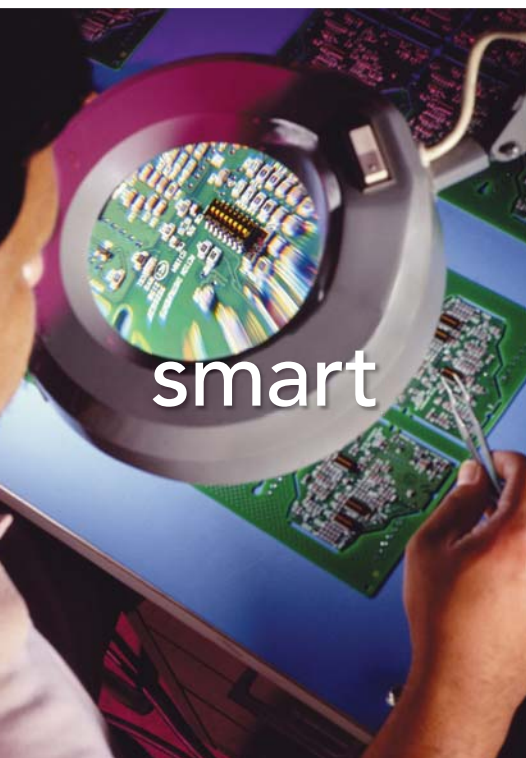
smart | simple | secure.

At Automatic Technology our every innovation, product and success is driven by those three words.

As we have done for the past quarter of a century, we continually strive to simplify your life by providing smarter access solutions.

Designed and engineered in Australia by our internationally renowned innovation team, Automatic Technology products define the future of automation by using the latest technology, processes and production methods to make doors and gates smart, simple and secure.

The **GDO-10 Toro™** Heavy Duty Rolling Door Opener is just one product borne of these ideals...



## The **GDO-10** features **TrioCode™** - but what is it?

**TrioCode™** is a revolutionary new coding system that provides enhanced reliability and security.

Increasingly transmitters are jammed by wireless and cordless devices both in the home and around the neighbourhood. Usually this occurs when both devices compete for the same frequency.

In commercial and industrial situations, this can be magnified by the myriad of machines and devices that may not directly transmit radio frequencies, but can affect them.

**TrioCode™** overcomes this challenge by **simultaneously transmitting on three different frequencies**. Even if two frequencies are jammed, the transmitter will still operate your door as one signal will get through.

For added security, **TrioCode™** transmitters use a non-linear code hopping algorithm that generates a new random code from over 4.29 billion possibilities with each use. This means that no-one can copy a transmitter's code and gain entry.

All you want is for your door to open when you press the button. With the world first transmitter technology marvel that is **TrioCode™**, you can rest assured it will.



# GDO-10 Toro™

## HEAVY DUTY ROLLING DOOR OPENER



Integrated battery backup as standard



Convenient wall mount control system



Full logic control with LCD menu system

### It's smart:

- Soft start/soft stop operation through 24V DC drive
- The intuitive LCD driven menu system allows for:
  - > quick access to setup, maintenance or diagnostic functions
  - > assigning a user's name to a transmitter, creating user groups, and access management
  - > setup of a password to prevent tampering with settings
- 24 hour/7 day time clock which can automatically control user-programmed functions, such as keeping the door open on busy weekday mornings, or locking out everyone but master users on weekends
- Ready for integration with PE Safety Beams, loop detectors, swipe card systems, fire alarm functions and more
- Outputs to integrate safety flashing lights, courtesy lights (with optional 240V light relay), and other auxiliary devices







### It's simple:

- No electrician needed for setup - the GDO-10 plugs into a standard outlet saving time and money
- Magnetic Automatic Limits Positioning System (M-ALPS), which unlike optical limit systems, is highly resistant to dust, dirt and fouling by insects
- The integrated battery backup, with automatic activation, means your door needs no chains or fiddly clutches

### It's secure:

- 50% duty cycle - equivalent to approximately 600 operations per day
- Will open doors up to 28m<sup>2</sup>
- Ready to function with up to 511 TrioCode™ transmitters

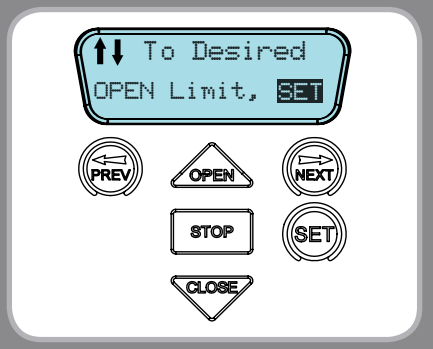
## Ordering Options & Capabilities

Kit Contents					Operating Modes			
Version	Powerhead	Control Panel	PE Beams with wiring harness	TrioCode™ PTX-5 Transmitters	Safety Mode ("Deadman Switch")	"Press/Release" Control Panel	Remote Access via Transmitters	Auto-Close + Access via Transmitters
<b>GDO-10 Full Auto</b>					✗	✓	✓	✓
<b>GDO-10 Basic</b>			N/A	N/A	✓	✗	✗ (Open only)	✗

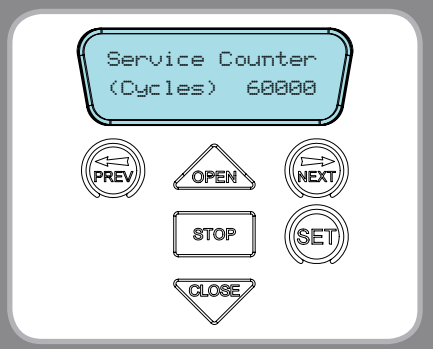
## Logic Control Parameters & Menu Examples

Menu Structure	1	Code Transmitter	Code in transmitters, and individually assign alpha-numeric usernames and define button functions (e.g. Button 1 for Open / Close, Button 2 for Vacation mode, Button 3 for light operation). Up to 511 transmitters can be stored and customised.
	2	Current Trips (Obstruction Margins)	Alter the level of obstruction required to trip the opener's safety mechanisms. Individually adjustable for open and close cycles.
	3	Auto-Close Times	Define individual Auto-Close times for various controlling inputs. e.g. Set a longer Auto-Close time for PE Beam triggered open cycles compared to pedestrian mode. PE Beam close modes add extra safety by ensuring doorway is clear during open/close cycles.
	4	Lock Times	Adjust time limits for hold and pulse operations with different settings for open and close cycles.
	5	Light Times	With the option of wiring a light to function with the <b>GDO-10 Toro™</b> , you can determine the time the light stays on during and after open and/or close operations. (240v lights require purchase of optional 240V light relay)
	6	Motor Settings	Define individual closing and opening speeds for the <b>GDO-10 Toro™</b> to provide the best and safest performance for the job.
	7	Operating Modes	Manage various operating inputs like PE Beams and swipe cards, view activity reports, activate vacation mode and password protect the <b>GDO-10 Toro™</b> , and much more.
	8	Time Clock	Set time and day, manage time and/or day related access programmes
	9	Diagnostics	Test input functions, display usage history, determine when a service is due, assess number of open / close cycles and frequency of encountered obstructions.
	10	Memory Tools	Delete individual users or user functions - handy for ensuring security when transmitters are lost or lock out de-authorized persons. Also backup, import or copy users and access levels from the PG-3 Programmer.
	11	Setup Travel	Set open and close limits for both normal operation and pedestrian mode, where the door closes to a height under which persons can walk.

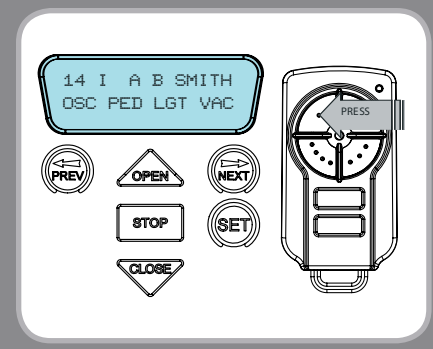
Setup and operation is simple with the LCD menu system. On-screen prompts guide you through each process. No more guessing what beeps and flashes mean!



Easily review the last 64 usages of the opener, see overall histories, setup service reminders, define operating modes and much more through the menu system.



Transmitters can be assigned alpha-numeric names to simplify management, allowing you to edit functions, assign to user groups or even delete without the user onsite!

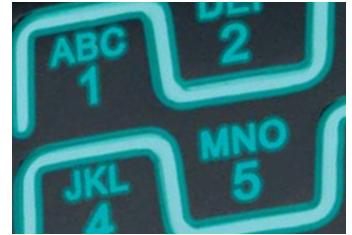


## Optional Accessories for Industrial Openers

Make your door even more smart, simple and secure with our range of great accessories.

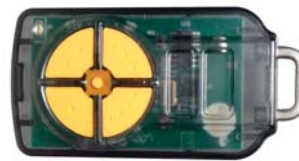
### TrioCode™ Wireless Keypad

The weatherproof wireless keypad allows access without a transmitter via a multi-digit PIN code. With back lit numbers for day or night use, multiple users can have unique codes for specific door and gate access.



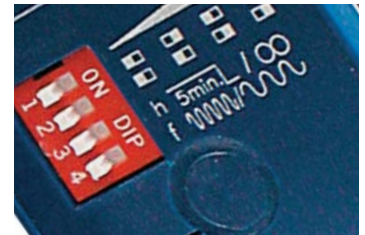
### TrioCode™ Transmitters

Available in both **keyring**, **water-resistant** and **wireless wall mount** models, **TrioCode™** transmitters use multi-frequency technology to ensure airborne electronic interference is never an issue.



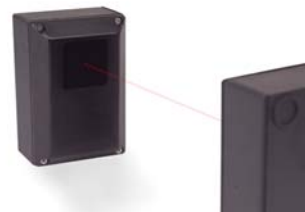
### Inductive Loop Detector

An inductive loop detector senses when the magnetic field is disrupted by a vehicle and activates the door. The loop detector is suitable in commercial situations where a trigger is required for entry/exit without the need for security authorisation.



### PE Safety Beams

Protect people and property with the PE Safety Beam. As soon as an object or person moves through the invisible safety beam, the door will stop or reverse to avert serious damage being done. *Included as standard with the Full Auto version. Required for automated operation.*



### SmartSolar™ Solar Power

The specially designed converter/charger board at the heart of the **SmartSolar™** Solar Power kit makes eco-friendly power an affordable option. Needing only one solar panel, this board charges a battery backup unit thus allowing "green" operation at night or during inclement weather.



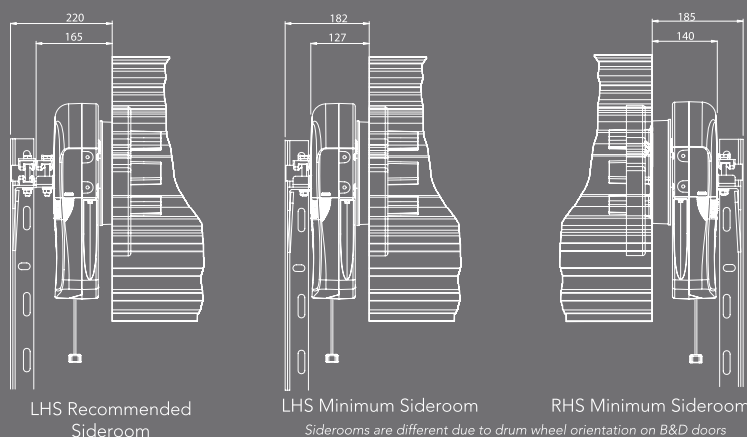
### PG-3 Programmer

The PG-3 Programmer provides a higher level of diagnostic and maintenance functionality, including special mode access, backup of functions and transmitters and more. Comes with custom designed hard case for durability.



# smart | simple | secure

Technical Specifications	GDO-10 Toro™
<b>Motor &amp; Power</b>	
Input Power	240V 50Hz 10amp AC 1-Phase
Geared Motor Power	150W
Transformer Rating	150VA
Standby Power Consumption	2.6W
Lifting Force Max/Nominal	500N/150N
Limits System	M-ALPS (Magnetic Automatic Limit Positioning System)
Duty Cycle	25 cycles per hour/600 cycles per day (50% duty cycle)
<b>Door Size</b>	
Max. Door Size (PLEASE NOTE - less for windlocked doors)	28m <sup>2</sup> <small>(Based on B&amp;D Series 2 Door without windlocks, consult your door manufacturer to confirm)</small>
Max. Door Width/Height/Weight	5500mm / 5100mm / 270kg
Max. Limits Travel	5.5 drum wheel turns
<b>Drive Unit Dimensions</b>	
Sideroom Required	See Below
Weight	13.5kg (with batteries)
<b>Logic Control Specifications</b>	
Transmitter Capacity	511
Frequency	433.42, 433.92 & 434.42 MHz (Frequency Hopping)
Coding Type	Hopping Code
No. of Code Combinations	Over 4.29 Billion
Code Generation	Non-linear encryption algorithm
Courtesy Light Output	Relay Output
Auxiliary Output	Relay Output
<b>Integrated Battery Backup Specifications</b>	
Battery Type	2 x 12V 6Ah
Standby Charge	1 Days
Number of operations (varies on door size)	12 operations
<b>Kit Contents</b>	
Powerhead with inbuilt battery backup	Yes
Control Panel with CAT-5E Connection Cable	Yes
6 x Drive Finger Extensions	Yes
PE Beams with Wiring Harness	Yes (Full Auto Model Only)
2 x PTX-5 TrioCode™ Transmitters	Yes (Full Auto Model Only)
<b>Warranty</b>	
Warranty	2 year parts warranty



© October 2008 Automatic Technology (Australia) Pty Ltd. All Rights Reserved. No part of the brochure may be reproduced without prior written permission. Toro™, TrioCode™, the text "smart | simple | secure", the Automatic Technology logos and circle devices are all trademarks of Automatic Technology (Australia) Pty Ltd. In any ongoing commitment to product quality, we reserve the right to change specifications without notice. E&OE.

Distributed by:

automatic  
TECHNOLOGY  
smart | simple | secure

an alesco company

Automatic Technology Pty Ltd

ABN 11 007 125 368

6-8 Fiveways Boulevard  
Keysborough, Victoria, 3173

P 1300 133 944

+61 2 9722 5666 (International Enquiries Only)

E sales@ata-aust.com.au

www.ata-aust.com.au