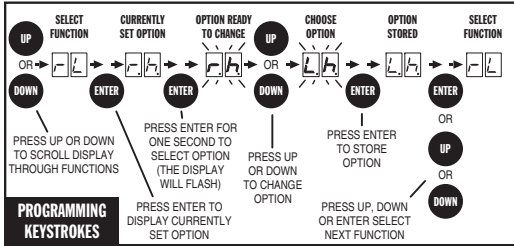


# Linear APeX v1.4 Gate Controller Quick Programming Guide — Basic & Advanced Programming —

PRESS UP & DOWN BUTTONS FOR 1-SECOND TO ENTER PROGRAMMING



## BASIC PROGRAMMING

## ADVANCED PROGRAMMING

### APEX FUNCTION DISPLAY INDICATIONS

<b>"RL"</b> LEFT OR RIGHT HAND OPERATION	<b>"LP"</b> LOW POWER MODE
<b>"PM"</b> SINGLE OR DUAL GATE	<b>"FS"</b> POWER FAILURE MODE
<b>"AC"</b> AUTO CLOSE TIMER	<b>"SS"</b> SOFT START/STOP DURATION
<b>"RP"</b> RUN ALARM PRE-START ALARM	<b>"CT"</b> RESET CYCLE COUNT
<b>"OC"</b> MAXIMUM OPEN CURRENT	<b>"MA"</b> MAINTENANCE ALERT TRIGGER
<b>"CC"</b> MAXIMUM CLOSE CURRENT	<b>"OR"</b> OPEN/RESET INPUT
<b>"AD"</b> ADVANCED PROGRAMMING	<b>"TG"</b> ANTI TAILGATE
<b>"RT"</b> MAXIMUM RUN TIMER	<b>"MT"</b> MID-TRAVEL STOP POSITION
<b>"SB"</b> SINGLE BUTTON INPUT SETUP	<b>"AT"</b> ANTI-TAILGATE ENABLE
<b>"SM"</b> STAGGER MODE	<b>"RA"</b> RADIO ENABLE
<b>"ST"</b> STAGGER TIME	<b>"TL"</b> LEARN TRANSMITTERS
<b>"AR"</b> AUXILIARY RELAY MODE	<b>"TD"</b> DELETE TRANSMITTERS
<b>"RD"</b> REVERSE DELAY TIME	<b>"ML"</b> LEARN MGT TRANSMITTERS
<b>"BD"</b> BRAKE DELAY TIME	<b>"MD"</b> ERASE MGT TRANSMITTERS
<b>"CP"</b> CONSTANT PRESSURE MODE	<b>"MO"</b> MOTOR TYPE SELECTION
<b>"SP"</b> SHADOW LOOP OPEN PREVENTION	<b>"CL"</b> RESET TO FACTORY DEFAULTS

**FUNCTION** **"RL"** **"RP"**

**OPTIONS**

RIGHT HAND INSTALLATION (OPERATOR ON RIGHT OF GATE WHEN VIEWED FROM INSIDE)

LEFT HAND INSTALLATION (OPERATOR ON LEFT SIDE OF GATE WHEN VIEWED FROM INSIDE)

**NOT FOR BARRIER GATES**

**LEFT HAND RIGHT HAND**

\*\*\* FOR LRA ARM INSTALLATIONS ONLY: \*\*\*  
FOR LRA PULL-TO-OPEN INSTALLATIONS (GATE SWINGS IN TO OPEN) LEAVE THE CONTROLLER SET FOR RIGHT HAND OPERATION  
FOR LRA PUSH-TO-OPEN INSTALLATIONS (GATE SWINGS OUT TO OPEN) SET THE CONTROLLER FOR LEFT HAND OPERATION

**FUNCTION** **"RP"**

**OPTIONS**

RUN ALARM OFF PRE-START ALARM OFF

RUN ALARM ON PRE-START ALARM OFF

RUN ALARM ON PRE-START ALARM ON FOR 1 - 9 SECONDS

**RUN ALARM PRE-START ALARM**

**NOT FOR BARRIER GATES**

**FUNCTION** **"AD"**

**OPTIONS**

ADVANCED PROGRAMMING FUNCTIONS WILL NOT BE DISPLAYED

ADVANCED PROGRAMMING OPTIONS WILL BE DISPLAYED

**ADVANCED PROGRAMMING**

NOTE: ADVANCED PROGRAMMING WILL STAY ENABLED AFTER EXITING PROGRAMMING UNTIL THE GATE CYCLES 50 TIMES

**FUNCTION** **"SM"**

**OPTIONS**

DISABLES STAGGER FUNCTION

SETS THIS OPERATOR FOR DELAYED OPEN

SETS THIS OPERATOR FOR DELAYED CLOSE

**STAGGER MODE**

**NOT FOR BARRIER GATES**

**NON-LRA DUAL GATES ONLY**

**FUNCTION** **"RD"**

**OPTIONS**

SET TIMER VALUE 1 TO 9 SECONDS

**REVERSE DELAY TIME**

**FUNCTION** **"SP"**

**OPTIONS**

STANDARD OPERATION SHADOW LOOP INHIBITS CLOSING ONLY

OPEN INHIBIT ON, SHADOW LOOP INHIBITS OPENING AND CLOSING

**SHADOW LOOP OPEN PREVENTION**

**NOT FOR BARRIER GATES**

**FUNCTION** **"PM"**

**OPTIONS**

SINGLE GATE INSTALLATION

DUAL GATE INSTALLATION

**SINGLE GATE DUAL GATE**

**FUNCTION** **"OC"**

**OPTIONS**

PRESS AND HOLD THE OPEN BUTTON UNTIL THE OPERATOR RUNS FULLY OPEN

SUGGESTED MINIMUM NUMBER WILL FLASH, ADJUST TO THE PROPER FORCE

**MAX OPEN CURRENT**

**NOT FOR BARRIER GATES**

**FUNCTION** **"RT"**

**OPTIONS**

DISPLAY SHOWS CURRENT MAXIMUM RUN TIME SETTING

WHILE DISPLAY IS FLASHING, PRESS UP OR DOWN TO CHANGE THE MAXIMUM RUN TIME (10-99 SECONDS)

**MAXIMUM RUN TIMER**

**FUNCTION** **"ST"**

**OPTIONS**

STAGGER TIMER DISABLED

SET STAGGER DELAY VALUE 1 TO 99 SECONDS

**STAGGER DELAY TIME**

**NOT FOR BARRIER GATES**

**NON-LRA DUAL GATES ONLY**

**FUNCTION** **"BD"**

**OPTIONS**

SET TIMER VALUE 0 TO 3 SECONDS

**BRAKE DELAY TIME**

**NOT FOR BARRIER GATES**

**FUNCTION** **"LP"**

**OPTIONS**

LOW POWER MODE DISABLED

LOW POWER MODE #1 RADIO WILL WAKE AND ACTIVATE, REVERSE LOOP WILL JUST WAKE

LOW POWER MODE #2 - RADIO OR OPEN LOOP WILL WAKE AND ACTIVATE, REVERSE LOOP WILL JUST WAKE

**LOW POWER MODE**

THE FIRE DEPARTMENT INPUT WILL ALWAYS WAKE UP CONTROLLER

**DC MODELS ONLY**

**FUNCTION** **"AC"**

**OPTIONS**

AUTO CLOSE TIMER DISABLED

SET TIMER VALUE 1 TO 59 SECONDS

SET TIMER VALUE 1 TO 9 MINUTES

**AUTO CLOSE TIMER**

**FUNCTION** **"CC"**

**OPTIONS**

PRESS AND HOLD THE CLOSE BUTTON UNTIL THE OPERATOR RUNS FULLY CLOSED

SUGGESTED MINIMUM NUMBER WILL FLASH, ADJUST TO THE PROPER FORCE

**MAX CLOSE CURRENT**

**FUNCTION** **"SB"**

**OPTIONS**

SINGLE INPUT WILL CYCLE OPERATOR IN ORDER OF OPEN-STOP-CLOSE-STOP

SINGLE INPUT WILL OPEN OPERATOR, IF OPERATOR IS ALREADY OPEN, SINGLE INPUT WILL CLOSE OPERATOR

**SINGLE BUTTON INPUT SETUP**

**FUNCTION** **"AR"**

**OPTIONS**

AUXILIARY RELAY DISABLED

AUXILIARY RELAY USED FOR MAGLOCK CONTROL

AUXILIARY RELAY USED FOR MAGLOCK OR SOLENOID CONTROL 3 SECOND DELAY TO RE-ENERGIZE

AUXILIARY RELAY USED FOR TICKET DISPENSER CONTROL

AUXILIARY RELAY USED FOR WARNING STROBE LIGHT

AUXILIARY RELAY USED FOR CONNECTION TO ALARM DEVICE

**AUXILIARY RELAY MODE**

**FUNCTION** **"CP"**

**OPTIONS**

CONSTANT PRESSURE SET TO OFF (MOMENTARY PRESSURE ON)

OPEN BUTTON SET FOR CONSTANT PRESSURE

CLOSE BUTTON SET FOR CONSTANT PRESSURE

OPEN AND CLOSE BUTTONS BOTH SET FOR CONSTANT PRESSURE

**CONSTANT PRESSURE MODE**

**NOT FOR BARRIER GATES**

**FUNCTION** **"FS"**

**OPTIONS**

SET TO FAIL SAFE MODE

SET TO FAIL SECURE MODE

SET TO OPEN IMMEDIATE MODE

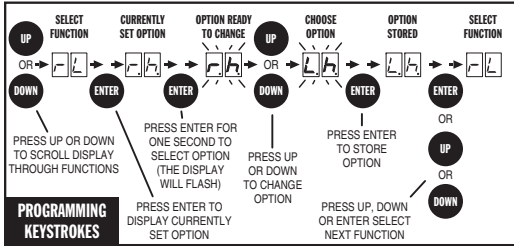
SET TO CLOSE IMMEDIATE MODE

**POWER FAILURE MODE**

**DC MODELS ONLY**

# Linear APeX v1.4 Gate Controller Quick Programming Guide — Advanced Programming —

PRESS UP & DOWN BUTTONS FOR 1-SECOND TO ENTER PROGRAMMING



**FUNCTION** SS "SS" **OPTIONS** 0.F. SOFT START DISABLED  
1.0. SET SOFT START DURATION TIME FROM 1 TO 10 SECONDS

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**SOFT START/STOP DURATION** **DC MODELS ONLY**

**FUNCTION** CT "CT" **OPTIONS** PRESS ENTER TO START THE CYCLE COUNT DISPLAY

1ST DISPLAY 2ND DISPLAY 3RD DISPLAY 4TH DISPLAY  
00 → 01 → 04 → 20  
EXAMPLE ABOVE SHOWS 10,420 CYCLES

DECIMAL POINT LIT ON 4TH DISPLAY

**RESET CYCLE COUNT** **NOTE: PRESS ENTER FOR 2 SECONDS WHILE THE "CT" FUNCTION IS DISPLAYED TO RESET THE CYCLE COUNT TO ZERO**

**FUNCTION** MA "MA" **OPTIONS** 0.F. DISABLES THE MAINTENANCE ALERT FUNCTION  
2.5. SETS THIS MAINTENANCE ALERT TRIGGER FOR 5, 10, 15, OR 25 THOUSAND CYCLES  
C.L. RESETS THE MAINTENANCE ALERT INDICATOR AND SETS THE MAINTENANCE ALERT COUNT TO ZERO

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**MAINTENANCE ALERT TRIGGER**

**FUNCTION** OR "OR" **OPTIONS** 0.F. OPEN MODE OFF  
C.L. OPEN COUNTER MODE  
S.U. OPEN SUPERVISED MODE

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**OPEN/RESET INPUT** **BARRIER GATES ONLY**

**FUNCTION** TG "TG" **OPTIONS** 0.F. ANTI-TAILGATE FUNCTION DISABLED  
0.R. ANTI-TAILGATE FUNCTION ENABLED

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**ANTI-TAILGATE** **BARRIER GATES ONLY**

**FUNCTION** MT "MT" **OPTIONS** 0.F. MID-TRAVEL STOP DISABLED (GATE RUNS FULL TRAVEL)  
9.9. SET LENGTH OF OPENING TIME FROM 1 TO 99 SECONDS

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**MID-TRAVEL STOP POSITION** **NOT FOR BARRIER GATES**

**FUNCTION** AT "AT" **OPTIONS** 0.F. ANTI-TAILGATE ENABLE OFF GATE REQUIRES AUTO OR MANUAL CLOSE  
0.R. ANTI-TAILGATE ENABLE ON GATE CLOSES WHEN SHADOW LOOP CLEARS

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**ANTI-TAILGATE ENABLE** **NOT FOR BARRIER GATES**

**FUNCTION** RA "RA" **OPTIONS** 0.F. INTERNAL RADIO RECEIVER DISABLED  
0.R. INTERNAL RADIO RECEIVER ENABLED

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**RADIO ENABLE**

**FUNCTION** TL "TL" **ENTER** PRESS ENTER (ONCE FOR EACH TRANSMITTER, UP TO 40 TRANSMITTERS TOTAL)

TL WILL BLINK FOR 30 SECONDS WHILE THE CONTROLLER IS READY TO LEARN A TRANSMITTER

ACTIVATE THE TRANSMITTER

DISPLAY WILL SHOW "-." THEN THE TRANSMITTER ID NUMBER - IF TRANSMITTER IS ALREADY ENTERED, "du" WILL BE DISPLAYED, IF DECODE IS BAD "ERROR" WILL BE DISPLAYED

**LEARN TRANSMITTERS**

**FUNCTION** TD "TD" **ENTER** PRESS ENTER

TD WILL BLINK FOR 30 SECONDS WHILE THE CONTROLLER IS READY TO DELETE ONE OR MORE TRANSMITTERS. (TO EXIT WITHOUT DELETING ANY, PRESS ENTER)

TO DELETE ALL TRANSMITTERS, PRESS ENTER FOR 2 SECONDS, OR TO PICK TRANSMITTERS GO TO NEXT STEP

PRESS UP OR DOWN TO SCROLL THROUGH THE LIST OF TRANSMITTER ID NUMBERS

THE TRANSMITTER ID NUMBER IS DISPLAYED (TO EXIT WITHOUT DELETING, PRESS ENTER) (TO PICK A DIFFERENT TRANSMITTER ID, PRESS UP OR DOWN)

PRESS ENTER FOR 2 SECONDS TO DELETE THE TRANSMITTER DISPLAYED

**DELETE TRANSMITTERS**

**FUNCTION** ML "ML" **ENTER** PRESS ENTER, "ML" WILL BLINK FOR 30 SECONDS WHILE THE CONTROLLER IS READY TO LEARN AN MGT TRANSMITTER

ACTIVATE THE MGT TRANSMITTER, THE DISPLAY WILL FLASH "E" - IF THE TRANSMITTER IS ALREADY ENTERED, "du" WILL BE DISPLAYED, IF DECODE IS BAD "ERROR" WILL BE DISPLAYED

PRESS UP OR DOWN TO SELECT THE MGT FUNCTION: \*R\* = REVERSE \*S\* = STOP \*OP\* = OPEN OBSTRUCTION \*CL\* = CLOSE OBSTRUCTION

PRESS ENTER TO ACCEPT THE SELECTION

DISPLAY WILL SHOW "-." FOR 5 SECONDS, THEN SHOW THE TRANSMITTER ID NUMBER - REPEAT STEPS FOR SECOND MGT TRANSMITTER IF USED

**LEARN MGT TRANSMITTERS**

**FUNCTION** MD "MD" **ENTER** PRESS ENTER

MD WILL BLINK FOR 30 SECONDS WHILE THE CONTROLLER IS READY TO DELETE ALL MGT TRANSMITTERS

TO DELETE ALL MGT TRANSMITTERS, PRESS ENTER FOR 2 SECONDS. (TO EXIT WITHOUT DELETING ANY, QUICKLY PRESS ENTER)

THE DISPLAY WILL SHOW "DELETE ALL" AND THE CONTROLLER RETURNS TO PROGRAMMING MODE

**ERASE MGT TRANSMITTERS**

**FUNCTION** MO "MO" **OPTIONS** A.C. AC MOTOR ONLY  
d.1. DC MOTOR ONLY WITH BRAKING  
d.2. DC MOTOR WITH SOFT START/STOP ALL LRA INSTALLATIONS USE D2  
3.P. 3 PHASE AC MOTOR **NOTE: SELECTION MUST MATCH MOTOR BOARD!**  
b.1. AC MOTOR PRIMARY WITH DC MOTOR BACKUP WITH BRAKING  
b.2. AC MOTOR PRIMARY WITH DC MOTOR BACKUP WITH SOFT START/STOP

PRESS UP OR DOWN TO CYCLE THROUGH OPTIONS  
PRESS ENTER TO SELECT AN OPTION

**MOTOR TYPE SELECTION**

**FUNCTION** CL "CL" **ENTER** WHILE "CL" IS DISPLAYED, PRESS ENTER

ALL PROGRAMMED DATA WILL BE CLEARED AND THE FACTORY DEFAULTS WILL BE STORED IN MEMORY.

**NOTE: THIS FUNCTION WILL NOT ERASE TRANSMITTERS, CURRENT SENSE VALUES, OR MOTOR TYPE.**

**RESET TO FACTORY DEFAULTS**

### APEX FUNCTION DISPLAY INDICATIONS

RL "RL" LEFT OR RIGHT HAND OPERATION	LP "LP" LOW POWER MODE
PM "PM" SINGLE OR DUAL GATE	FS "FS" POWER FAILURE MODE
AC "AC" AUTO CLOSE TIMER	SS "SS" SOFT START/STOP DURATION
RP "RP" RUN ALARM PRE-START ALARM	CT "CT" RESET CYCLE COUNT
OC "OC" MAXIMUM OPEN CURRENT	MA "MA" MAINTENANCE ALERT TRIGGER
CC "CC" MAXIMUM CLOSE CURRENT	OR "OR" OPEN/RESET INPUT
AD "AD" ADVANCED PROGRAMMING	TG "TG" ANTI TAILGATE
RT "RT" MAXIMUM RUN TIMER	MT "MT" MID-TRAVEL STOP POSITION
SB "SB" SINGLE BUTTON INPUT SETUP	AT "AT" ANTI-TAILGATE ENABLE
SM "SM" STAGGER MODE	RA "RA" RADIO ENABLE
ST "ST" STAGGER TIME	TL "TL" LEARN TRANSMITTERS
AR "AR" AUXILIARY RELAY MODE	TD "TD" DELETE TRANSMITTERS
RD "RD" REVERSE DELAY TIME	ML "ML" LEARN MGT TRANSMITTERS
BD "BD" BRAKE DELAY TIME	MD "MD" ERASE MGT TRANSMITTERS
CP "CP" CONSTANT PRESSURE MODE	MO "MO" MOTOR TYPE SELECTION
SP "SP" SHADOW LOOP OPEN PREVENTION	CL "CL" RESET TO FACTORY DEFAULTS



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