LX375 Auto Dialer Users Manual
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LX375 Dialer Overview

Routes	Programmable	Fixed	Description
Route 0		X	Calls screened to this route are direct are dialed as entered. This is a fixed route it cannot be changed.
Route 1	X		This is a programmable route. The way the call is routed over this route is programmed through register 06. This is also called the primary route.
Route 2	X		This is a programmable route. The way the call is routed over this route is programmed through register 07. This is also called the secondary route.
Restrict		X	Calls screened to this route are restricted. . This is a fixed route and cannot be changed.

Programming The LX375

Default Program Password	54321* (This can be changed via register 00)		
Programming Prompts (beeps)	1 beep = register valid continue entry.	2 beeps = dialer accepted program entry.	4 beeps = error in programming.
Remote Programming the LX375	Remote programming can be done by having the user of the dialer call you on the telephone line the dialer is connected to or you can call them. When the call is completed you will enter the programming password and begin programming		

REGISTER 02	**ROUTE 1 ACCESS NUMBER**			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	02 3671399 ## This sets the access number to 3671399			
Description	Access number route 1 is the number to be dialed via route 1 in order to establish a connection with a common carrier or network			
User Notes				

REGISTER 03	ROUTE 2 ACCESS NUMBER			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	03 3670922 ## This sets the access number to 3670922			
Description	Access number route 2 is the number to be dialed via route 2 in order to establish a connection with a common carrier or network			
User Notes				

REGISTER 04	ROUTE 1 AUTHORIZATION CODE			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	04 1234567890 ## This sets the authorization code to 1234567890.			
Description	Route 1 authorization code is a number that can be dialed via route 1.			
User Notes				

REGISTER 05	ROUTE 2 AUTHORIZATION CODE			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	05 1234567890 ## This sets the authorization code to 1234567890.			
Description	Route 2 authorization code is a number that can be dialed via route 2.			
User Notes				

REGISTER 06	ROUTE 1 INSTRUCTIONS			
Default = Empty	* Max digit entry for this register is 28 * This Register must be sealed with a ##			
Command	**Description**			
0	Unmute dialing			
1x	Dials DTMF Digit (x) **See table below for (x) definition**			
<Example> 19 = Dial Dtmf 9	1 = DTMF 1	5 = DTMF 5	9 = DTMF 9	#2 = DTMF A
	2 = DTMF 2	6 = DTMF 6	0 = DTMF 0	#3 = DTMF B
	3 = DTMF 3	7 = DTMF 7	* = DTMF *	#4 = DTMF C
	4 = DTMF 4	8 = DTMF 8	#1 = DTMF #	#5 = DTMF D
2x	Dial destination Number **See table below for (x) definition**			
	1 = dial as entered		7 = strip the first 6 digits dialed	
	2 = strip the first digit dialed		8 = strip the first 7 digits dialed	
	3 = strip the first 2 digits dialed		9 = strip the first 8 digits dialed	
	4 = strip the first 3 digits dialed		0 = strip the first 9 digits dialed	
	5 = strip the first 4 digits dialed		* = strip the first 10 digits dialed	
	6 = strip the first 5 digits dialed		#1 = strip the first 11 digits dialed	
3	Dial access number			
4	Dial authorization code			
5xy	Wait for dtmf tone (x) for up to (y) seconds **See table below for (x, y) definition**			
	X		**Y**	
	1 = dtmf 1	9 = dtmf 9	1 = 2 Seconds	9 = 18 Seconds
	2 = dtmf 2	0 = dtmf 0	2 = 4 Seconds	0 = 20 Seconds
	3 = dtmf 3	* = dtmf *	3 = 6 Seconds	* = 22 Seconds
	4 = dtmf 4	#1 = dtmf #	4 = 8 Seconds	#1 = 24 Seconds
	5 = dtmf 5	#2 = dtmf A	5 = 10 Seconds	
	6 = dtmf 6	#3 = dtmf B	6 = 12 Seconds	
	7 = dtmf 7	#4 = dtmf C	7 = 14 Seconds	
	8 = dtmf 8	#5 = dtmf D	8 = 16 Seconds	
6	Switch to from pulse to dtmf dialing			
8x	Pause for (x) Seconds **See table below for (x) definition**			
	1 = 1 second	6 = 6 seconds	* = 11 seconds	
	2 = 2 seconds	7 = 7 seconds	#1 = 12 seconds	
	3 = 3 seconds	8 = 8 seconds		
	4 = 4 seconds	9 = 9 seconds		
	5 = 5 seconds	0 = 10 seconds		
#1	Direct dial on route failure			
#2	Rearm dialer after routing			
*****	Send 500ms hook flash			

REGISTER 07	ROUTE 2 INSTRUCTIONS			
Default = Empty	* Max digit entry for this register is 28 * This Register must be sealed with a ##			
Command	**Description**			
0	Unmute dialing			
1x	Dials DTMF Digit (x) **See table below for (x) definition**			
<Example> 19 = Dial Dtmf 9	1 = DTMF 1	5 = DTMF 5	9 = DTMF 9	#2 = DTMF A
	2 = DTMF 2	6 = DTMF 6	0 = DTMF 0	#3 = DTMF B
	3 = DTMF 3	7 = DTMF 7	* = DTMF *	#4 = DTMF C
	4 = DTMF 4	8 = DTMF 8	#1 = DTMF #	#5 = DTMF D
2x	Dial destination Number **See table below for (x) definition**			
	1 = dial as entered		7 = strip the first 6 digits dialed	
	2 = strip the first digit dialed		8 = strip the first 7 digits dialed	
	3 = strip the first 2 digits dialed		9 = strip the first 8 digits dialed	
	4 = strip the first 3 digits dialed		0 = strip the first 9 digits dialed	
	5 = strip the first 4 digits dialed		* = strip the first 10 digits dialed	
	6 = strip the first 5 digits dialed		#1 = strip the first 11 digits dialed	
3	Dial access number			
4	Dial authorization code			
5xy	Wait for dtmf tone (x) for up to (y) seconds **See table below for (x, y) definition**			
	X		**Y**	
	1 = dtmf 1	9 = dtmf 9	1 = 2 Seconds	9 = 18 Seconds
	2 = dtmf 2	0 = dtmf 0	2 = 4 Seconds	0 = 20 Seconds
	3 = dtmf 3	* = dtmf *	3 = 6 Seconds	* = 22 Seconds
	4 = dtmf 4	#1 = dtmf #	4 = 8 Seconds	#1 = 24 Seconds
	5 = dtmf 5	#2 = dtmf A	5 = 10 Seconds	
	6 = dtmf 6	#3 = dtmf B	6 = 12 Seconds	
	7 = dtmf 7	#4 = dtmf C	7 = 14 Seconds	
	8 = dtmf 8	#5 = dtmf D	8 = 16 Seconds	
6	Switch to from pulse to dtmf dialing			
8x	Pause for (x) Seconds **See table below for (x) definition**			
	1 = 1 second	6 = 6 seconds	* = 11 seconds	
	2 = 2 seconds	7 = 7 seconds	#1 = 12 seconds	
	3 = 3 seconds	8 = 8 seconds		
	4 = 4 seconds	9 = 9 seconds		
	5 = 5 seconds	0 = 10 seconds		
#1	Direct dial on route failure			
#2	Rearm dialer after routing			
*****	Send 500ms hook flash			

REGISTER 20	DIALER ENABLE
Default = 1	1 = Dialer Enabled 2 = Dialer Disabled
Example	21 2 This disables the dialer.
User Notes	

REGISTER 21	HOTLINE DIAL ROUTE 1 ENABLE/DISABLE
Default = 2	1 = Enable hotline route 1 2 = Disable hotline route 1
Example	21 1 This enables the the hotline dial route 1 feature.
Description	The hotline route 1 feature allows the user to have the dialer automatically dial out when an off hook condition is detected. The user must set up route 1 command instructions before using this feature (Register 06).
User Notes	

REGISTER 22	DIAL TYPE
Default = 1	1 = Dtmf dial type 2 = Pulse dial type
Example	22 2 This sets the dialer for pulse dial type.
Description	Dial type allows the user to specify whether the dialer uses dtmf or pulse to signal the local exchange or other network.
User Notes	

REGISTER 23	DTMF INTERVAL			
Default = 3	1 = 40ms	5 = 120ms	9 = 200ms	A = 280ms
	2 = 60ms	6 = 140ms	0 = 220ms	B = 300ms
	3 = 80ms	7 = 160ms	* = 240ms	C = 320ms
	4 = 100ms	8 = 180ms	# = 260ms	D = 340ms
Example	23 4 This sets the dtmf dial interval to 100ms.			
Description	Dtmf interval is the rate the dialer out pulses dtmf tones to the local office exchange or other chosen network or carrier.			
User Notes				

REGISTER 24	PULSE RECEIVE ENABLE/DISABLE
Default = 2	1 = Enable pulse digit recognition 2 = Disable pulse digit recognition
Example	24 1 This enables the dialer to recognize pulse dialing.
Description	Pulse receive enable/disable allows the user to select whether the dialer should recognize pulse digits or not. To receive pulse digits this must be enabled.
User Notes	

REGISTER 25	PULSE RESTRICT
Default = 2	1 = Restrict on pulse digit 2 = Disable pulse digit restriction
Example	25 1 This restricts the call when a pulse digit is detected
User Notes	

REGISTER 26	LINE DROP TIMING			
Default = 5	1 = 800ms	5 = 1.6 seconds	9 = 2.4 seconds	A = 3.2 seconds
	2 = 1.0 second	6 = 1.8 seconds	0 = 2.6 seconds	B = 3.4 seconds
	3 = 1.2 seconds	7 = 2.0 seconds	* = 2.8 seconds	C = 3.6 seconds
	4 = 1.4 seconds	8 = 2.2 seconds	# = 3.0 seconds	D = 3.8 seconds
Example	26 7 This sets line drop timing to 2.0 seconds.			
Description	This is the amount of time the dialer takes when disconnecting the telephone line.			
User Notes				

REGISTER 27	ON HOOK TIMING			
Default = 4	1 = 200ms	5 = 1.0 second	9 = 1.8 seconds	A = 2.6 seconds
	2 = 400ms	6 = 1.2 seconds	0 = 2.0 seconds	B = 2.8 seconds
	3 = 600ms	7 = 1.4 seconds	* = 2.2 seconds	C = 3.0 seconds
	4 = 800ms	8 = 1.6 seconds	# = 2.4 seconds	D = 3.2 seconds
Example	27 5 This sets on hook timing to 1 second.			
Description	On hook timing allows the user to select the amount of time for a valid on hook condition after the user returns the phone to an on hook position (hangs up the phone).			
User Notes				

REGISTER 28	0 AND 0+ INTERDIGIT TIMER			
Default = 3	1 = 1 second	5 = 5 seconds	9 = 9 seconds	A = 13 seconds
	2 = 2 seconds	6 = 6 seconds	0 = 10 seconds	B = 14 seconds
	3 = 3 seconds	7 = 7 seconds	* = 11 seconds	C = 15 seconds
	4 = 4 seconds	8 = 8 seconds	# = 12 seconds	
Example	28 4 Sets Interdigit timing to 4 seconds.			
Description	When a user enters a 0 or 0+ the dialer waits this amount of time after detecting the last digit entered and begins processing the call			
User Notes				

REGISTER 011	ROUTE 1 ALTERNATE ACCESS NUMBER			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	011 3671399 ## This sets the alternate access number to 3671399			
Description	If this register is programmed and a route failure occurs on route 1 the dialer will hangup and redial this access number. This register can be programmed with the same number as register 02			
User Notes				

REGISTER 012	ROUTE 2 ALTERNATE ACCESS NUMBER			
Default = Empty	1 = 1	5 = 5	9 = 9	#2 = A
Max Entry = 28	2 = 2	6 = 6	0 = 0	#3 = B
	3 = 3	7 = 7	* = *	#4 = C
	4 = 4	8 = 8	#1 = #	#5 = D
	****Important Note**** This program register must be sealed with a ##			
Example	012 3671399 ## This sets the alternate access number to 3671399			
Description	If this register is programmed and a route failure occurs on route 1 the dialer will hangup and redial this access number. This register can be programmed with the same number as register 03			
User Notes				

REGISTER 00	CALL SCREENING TEMPLATE

Call Screen entry sequence **<00> < action code> <number to screen> ##**
<00> < action code> <number to screen> ##

Call screening entries can consist of literal and wild card digits. Wild card digits can reduce the number of call screen entries you have to enter.

Literal Digits		Wild Card Digits
1 = Digit 1	7 = Digit 7	#0 = Digit #
2 = Digit 2	8 = Digit 8	#1 = Digit 1 or 0
3 = Digit 3	9 = Digit 9	#4 = Digit 2,3,4,5,6,7,8,9
4 = Digit 4	0 = Digit 0	#9 = Any Digit
5 = Digit 5	* = Digit *	
6 = Digit 6		

Action Code	Description
00	Select Route 0 **See Note 1**
01	Select Route 1 **See Note 1**
02	Select Route 2 **See Note 1**
10	Force Route 0 **See Note 2**
11	Force Route 1 **See Note 2**
12	Force Route 2 **See Note 2**
20	Last Digit of User Entered Number Use Route 0
21	Last Digit of User Entered Number Use Route 1
22	Last Digit of User Entered Number Use Route 2
30	Last Digit of User Entered Number, Start Routing
31	Select Restrict **See Note 2**
32	Force Restrict **See Note 2**
33	Absorb User Entered Digits and Start Screening Over
34	Programming Password
35	Dialer Bypass Code
99	Delete Entry Out of Call Screening Table

Note 1	When a route or restrict is ***selected*** it can be changed to another route if a nother match occurs in the screening table as the user enters the telephone number.
Note 2	When a route or restrict is ***forced*** all other call screening matches are ignored as the user enters the telephone number.

Program Examples	**00 32 1900 ##** (This tells the dialer to force restrict 1900). **00 10 #1800 ##** (This tells the dialer to send force all calls beginning with 0800 and 1800 to route 0). **00 01 1208 ##** (This tells the dialer to select route 1 for all calls beginning with 1208).
Defaults for Screening Tables	00 01 1 Send 1+ calls to route 1. 00 00 0 Send 0+ calls to route 0. 00 34 54321* Set programming password is 54321*. 00 20 911 Send 911 calls to route 0. 00 35 111 Set 111 as dialer bypass code. 00 30 #4#9#9#9#9#9#9 Call template for 7 digit calls. 00 30 #1#4#9#9#9#9#9#9#9#9 Call template for 0+ and 1+ digit calls.

REGISTER 99	SET TO FACTORY DEFAULTS
	1 = Default dialer 2 = Exit no default
Example	99 1 Defaults dialer database
Description	This defaults the dialer back to factory settings.
User Notes	

REGISTER **	EXIT PROGRAM MODE
	1 = Exit program mode 2 = Exit program mode and drop line
Example	** 2 Exits program mode and drops line
Description	This exits program mode
User Notes	