



DLL2020-W

Configuration Guide



DLL2020-W

CONFIGURATION GUIDE

Extended version

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(Rev. A)

OPEN/CLOSE

1.1	8712345100001	Open and close (with update) progr mode
1.2	8712345100094	Exit programming mode (no update)
1.3	8712345100087	Return to default settings
1.4	8712345100070	Return to custom default

SIGNALLING

2.1.1	8712345150013	Speaker frequency
2.1.2	8712345150006	Speaker volume
2.1.5	8712345151010	Led/Beep after decoding
2.1.6	8712345151027	Led/Beep after transmission

SLEEP MODE

2.2.1	8712345130305	Sleep mode Off
2.2.2	8712345130312	Sleep mode after 10 min
2.2.3	8712345130329	Sleep mode after 30 min
2.2.4	8712345130336	Sleep mode after 60 min

SCANNER TIMING

2.3.1	8712345130107	Same code delay 50 msec
2.3.2	8712345130114	Same code delay 100 msec
2.3.3	8712345130121	Same code delay 200 msec
2.3.4	8712345130138	Same code delay 300 msec
2.3.5	8712345130145	Same code delay 400 msec
2.3.6	8712345130152	Same code delay 500 msec
2.3.7	8712345130169	Same code delay 600 msec
2.3.8	8712345130176	Same code delay 700 msec
2.3.9	8712345130183	Same code delay 800 msec
2.3.15	8712345130008	Code sample period 50 msec
2.3.16	8712345130015	Code sample period 100 msec
2.3.17	8712345130022	Code sample period 150 msec
2.3.18	8712345130039	Code sample period 200 msec
2.5.1	8712345110581	Buffersize of scanner > 1
2.5.2	8712345110598	Buffersize of scanner = 1

RS232

3.1.1	8712345110000	Baudrate 300
3.1.2	8712345110017	Baudrate 1200
3.1.3	8712345110024	Baudrate 2400
3.1.4	8712345110031	Baudrate 4800
3.1.5	8712345110048	Baudrate 9600
3.1.6	8712345110055	Baudrate 19200
3.1.10	8712345110109	Parity None
3.1.11	8712345110116	Parity Even
3.1.12	8712345110123	Parity Odd
3.1.15	8712345110307	RS232 select 7 databits
3.1.16	8712345110314	RS232 select 8 databits
3.1.20	8712345110208	1 Stopbit
3.1.21	8712345110215	2 Stop bits
3.1.25	8712345110536	RTS/CTS On
3.1.26	8712345110529	RTS/CTS Off
3.1.30	8712345190101	Set RS232 Preset 1
3.1.31	8712345190118	Set RS232 Preset 2
3.1.32	8712345190125	Set RS232 Preset 3
3.1.33	8712345190132	Set RS232 Preset 4
3.1.34	8712345190149	Set RS232 Preset 5
3.1.35	8712345200008	Set RS232 Preset 6
3.1.36	8712345200107	Set RS232 Preset 7

OCIA

3.2.1	8712345120412	OCIA byte format EAN/UPC DTS
3.2.2	8712345120429	OCIA byte format EAN/UPC NCR short
3.2.3	8712345120436	OCIA byte format EAN/UPC
3.2.4	8712345120443	OCIA byte format EAN/UPC DTS
3.2.5	8712345120450	OCIA byte format EAN/UPC DTS
3.2.6	8712345120467	OCIA byte format EAN/UPC DTS
3.2.7	8712345120474	OCIA byte format EAN/UPC DTS

IBM RS485

3.3.1	8712345170004	IBM Point Of Sale scanner
3.3.2	8712345170011	IBM Handscanner emulation

PC KBW

3.4.1	8712345400002	Keyboard wedge terminal type XT
3.4.2	8712345400019	Keyboard wedge terminal type AT
3.4.3	8712345400026	Keyboard wedge terminal type PS2
3.4.10	8712345400200	Keyboard wedge International method
3.4.11	8712345400217	Keyboard wedge language = US
3.4.12	8712345400224	Keyboard wedge language = UK
3.4.13	8712345400231	Keyboard wedge language = French
3.4.14	8712345400248	Keyboard wedge language = German
3.4.23	8712345400392	Keyboard wedge language = user defined Keyboard table to be downloaded from PC/utility
3.4.30	8712345400507	Keyboard wedge CapsLock switched Off
3.4.31	8712345400514	Keyboard wedge CapsLock switched On
3.4.35	8712345130404	Inter character delay 0 msec
3.4.36	8712345130411	Inter character delay 1 msec
3.4.37	8712345130428	Inter character delay 2 msec
3.4.38	8712345130435	Inter character delay 5 msec
3.4.39	8712345130442	Inter character delay 10 msec
3.4.40	8712345130459	Inter character delay 20 msec
3.4.41	8712345130466	Inter character delay 50 msec
3.4.42	8712345130473	Inter character delay 100 msec
3.4.43	8712345130480	Inter character delay 200 msec
3.4.44	8712345130497	Inter character delay 500 msec

DECODING PARAMETERS

4.1.1	8712345141011	EAN/UPC (AddOn Off) On
4.1.2	8712345141004	EAN/UPC/AddOn Off
4.1.4	8712345141042	EAN/UPC + AddOn mandatory
4.1.5	8712345141035	EAN/UPC + AddOn mand. for 379/434/439/529/977, optional for others
4.1.6	8712345141073	EAN/UPC + AddOn mand. for 379/434/439/529/977, not sent for others
4.1.7	8712345141059	AddOn5 only : on (AddOns must be selected)
4.1.8	8712345141066	AddOn5 only : off (AddOns must be selected)
4.1.9	8712345110765	Price check digit verify Off (EAN13)
4.1.10	8712345110789	Price checkdigit verify, 4 digits price field (EAN13/UPCA)
4.1.11	8712345110772	Price checkdigit verify, 5 digits price field (EAN13/UPCA)
4.1.20	8712345143107	Code 128/EAN 128 On
4.1.21	8712345143114	Code 128/EAN 128 Off
4.1.25	8712345143015	Code 39 On
4.1.26	8712345143046	Code 39 full ascii On
4.1.27	8712345143039	Code 32 On
4.1.28	8712345143053	Code 39/Code 32 Off
4.1.30	8712345143022	Codabar On
4.1.31	8712345143060	Codabar Off
4.1.35	8712345142025	Interleaved 2/5 On
4.1.36	8712345142001	Interleaved 2/5 Off

CODE LENGTH

4.2.1	8712345144135	Setting minimum length Code 128
4.2.2	8712345144142	Setting minimum length Code 39
4.2.3	8712345144159	Setting minimum length Codabar
4.2.4	8712345144111	Setting minimum length Interleaved 2/5
4.2.5	8712345144319	Set fixed length 1 Code 128
4.2.6	8712345144326	Set fixed length 1 Code 39
4.2.7	8712345144333	Set fixed length 1 Codabar
4.2.8	8712345144302	Set fixed length 1 Interleaved 2/5
4.2.9	8712345144357	Set fixed length 2 Code 128
4.2.10	8712345144364	Set fixed length 2 Code 39
4.2.11	8712345144371	Set fixed length 2 Codabar
4.2.12	8712345144340	Set fixed length 2 Interleaved 2/5
4.2.15	8712345131043	Length = 4
4.2.16	8712345131067	Length = 6
4.2.17	8712345131081	Length = 8
4.2.18	8712345131104	Length = 10
4.2.19	8712345131128	Length = 12
4.2.20	8712345131142	Length = 14
4.2.21	8712345131166	Length = 16
4.2.22	8712345131180	Length = 18
4.2.23	8712345131203	Length = 20
4.2.24	8712345131227	Length = 22
4.2.25	8712345131241	Length = 24
4.2.26	8712345131265	Length = 26
4.2.27	8712345131289	Length = 28
4.2.28	8712345131302	Length = 30
4.2.29	8712345131326	Length = 32

PREAMBLES

5.1.1	8712345144203	Open/close without update programming mode preambles
5.1.2	8712345131005	Exit programming mode preambles with update

POSTAMBLES

5.2.1	8712345110505	Postamble = CR
5.2.2	8712345110611	Postamble = LF
5.2.3	8712345110512	Postamble = CR + LF
5.2.4	8712345110635	Postamble = free format
5.2.5	8712345144210	Open/close without update programming mode postambles
5.2.6	8712345131005	Close programming mode postambles with update

CODE IDENTIFIERS

5.3.1	8712345110475	Set message format with code identifiers
5.3.2	8712345110468	Set message format without code identifiers
5.3.5	8712345110413	Identifiers On
5.3.6	8712345110406	Identifiers Off
5.3.10	8712345144005	Setting identifier EAN13
5.3.11	8712345144012	Setting identifier EAN8
5.3.12	8712345144029	Setting identifier UPCA
5.3.13	8712345144036	Setting identifier UPCE
5.3.14	8712345144043	Setting identifier EAN 128
5.3.15	8712345144074	Setting identifier Code 128
5.3.16	8712345144081	Setting identifier Code 39
5.3.17	8712345144067	Setting identifier Code 32
5.3.18	8712345144098	Setting identifier Codabar
5.3.19	8712345144050	Setting identifier Interleaved 2/5
5.3.20	8712345131005	Exit programming free programmable identif. with update
5.3.21	8712345144203	Exit programming free programmable ident. without update

SPECIAL FORMATTING

5.4.1	8712345110499	AddOn format with separator
5.4.2	8712345110482	AddOn format without separator
5.4.3	8712345110567	UPCA format transmitted as UPCA (12 digits)
5.4.4	8712345110574	UPCA format transmitted as EAN13 (with leading zero)
5.4.5	8712345110550	UPCE format UPCE to UPCA expansion : On
5.4.6	8712345110543	UPCE format UPCE to UPCA expansion : Off
5.4.7	8712345110437	UPCE format with leading zero
5.4.8	8712345110420	UPCE format without leading zero
5.4.9	8712345110451	UPCE format with check digit
5.4.10	8712345110444	UPCE format without check digit
5.4.15	8712345143121	Code 128/EAN 128 : send first FNC1 as]C1 FNC1 as]C1
5.4.16	8712345143138	Code 128/EAN 128 : do not send first FNC1 as]C1
5.4.20	8712345143305	Transmit printable characters only
5.4.21	8712345143312	Transmit printable and non-printable characters

ASCII CHARACTERS (pre/postambles, code identifiers)

6.1.1	8712345131012	'SOH'
6.1.2	8712345131029	'STX'
6.1.3	8712345131036	'ETX'
6.1.4	8712345131043	'EOT'
6.1.5	8712345131487	'0'
6.1.6	8712345131654	'A'
6.1.7	8712345131661	'B'
6.1.8	8712345131678	'C'
6.1.9	8712345131685	'D'
6.1.10	8712345131692	'E'
6.1.11	8712345131708	'F'
*	8712345131081	BS'
*	8712345131098	'HT'
*	8712345131104	LF'
*	8712345131111	'VT'
*	8712345131128	FF'
*	8712345131135	'CR'
*	8712345131272	'ESC'
*	8712345131357	'#'
*	8712345131371	'%'
*	8712345131388	'&'
*	8712345131425	'*'
*	8712345131739	'I'
*	8712345131753	'K'
*	8712345131777	'M'
*	8712345131784	'N'
*	8712345131838	'S'
*	8712345131883	'X'
*	8712345131890	'Y'
*	8712345131906	'Z'
*	8712345132057	'i'
*	8712345132279	'DEL'

PC KBW communication (pre-ambls, postambles)

6.1.15	8712345400606	Special key F1
6.1.16	8712345400613	Special key F2
6.1.17	8712345400620	Special key F3
6.1.18	8712345400637	Special key F4
6.1.19	8712345400644	Special key F5
6.1.20	8712345400651	Special key F6
6.1.21	8712345400668	Special key F7
6.1.22	8712345400675	Special key F8
6.1.23	8712345400682	Special key F9
6.1.24	8712345400699	Special key F10
6.1.25	8712345400705	Special key F11
6.1.26	8712345400712	Special key F12
6.1.30	8712345400804	Special key Tab
6.1.31	8712345400811	Special key Enter (alpha)
6.1.32	8712345400828	Special key Enter (num)
6.1.33	8712345400835	Special key Backspace
6.1.34	8712345400842	Special key Delete
6.1.35	8712345400859	Special key Esc
6.1.36	8712345400866	Special key Arrow left
6.1.37	8712345400873	Special key Arrow right
6.1.38	8712345400880	Special key Arrow up
6.1.39	8712345400897	Special key Arrow down
6.1.40	8712345400903	Special key Page up
6.1.41	8712345400910	Special key Page down
6.1.42	8712345400927	Special key Home
6.1.43	8712345400934	Special key End

Open and close (with update) progr mode



Exit programming mode (no update)



Return to default settings



Return to custom default



Speaker frequency



2.1.1

Speaker volume



2.1.2

Led/Beep after decoding



2.1.5

Led/Beep after transmission



2.1.6

Sleep mode Off



2.2.1

Sleep mode after 10 min



2.2.2

Sleep mode after 30 min



2.2.3

Sleep mode after 60 min



2.2.4

Same code delay 50 msec



2.3.1

Same code delay 100 msec



2.3.2

Same code delay 200 msec



2.3.3

Same code delay 300 msec



2.3.4

Same code delay 400 msec



Same code delay 500 msec



Same code delay 600 msec



Same code delay 700 msec



Same code delay 800 msec



Code sample period 50 msec



Code sample period 100 msec



Code sample period 150 msec



Code sample period 200 msec



2.3.18

Buffersize of scanner > 1



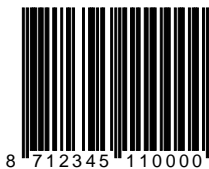
2.5.1

Buffersize of scanner = 1



2.5.2

Baudrate 300



3.1.1

Baudrate 1200



3.1.2

Baudrate 2400



3.1.3

Baudrate 4800



3.1.4

Baudrate 9600



3.1.5

Baudrate 19200



3.1.6

Parity None



3.1.10

Parity Even



3.1.11

Parity Odd



3.1.12

RS232 select 7 databits



3.1.15

RS232 select 8 databits



3.1.16

1 Stopbit



3.1.20

2 Stop bits



3.1.21

RTS/CTS On



3.1.25

RTS/CTS Off



3.1.26

Set RS232 Preset 1



3.1.30

Set RS232 Preset 2



3.1.31

Set RS232 Preset 3



3.1.32

Set RS232 Preset 4



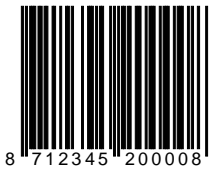
3.1.33

Set RS232 Preset 5



3.1.34

Set ICL default



3.1.35

Set RS232 Preset 7



3.1.36

OCIA byte format EAN/UPC DTS



3.2.1

OCIA byte format EAN/UPC NCR short



3.2.2

OCIA byte format EAN/UPC



3.2.3

OCIA byte format EAN/UPC DTS



3.2.4

OCIA byte format EAN/UPC DTS



3.2.5

OCIA byte format EAN/UPC DTS



3.2.6

OCIA byte format EAN/UPC DTS



3.2.7

IBM Point Of Sale scanner



3.3.1

IBM Handscanner emulation



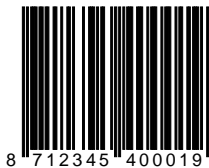
3.3.2

Keyboard wedge terminal type XT



3.4.1

Keyboard wedge terminal type AT



3.4.2

Keyboard wedge terminal type PS2



3.4.3

Keyboard wedge International method



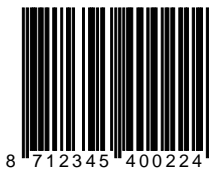
3.4.10

Keyboard wedge language = US



3.4.11

Keyboard wedge language = UK



3.4.12

Keyboard wedge language = French



3.4.13

Keyboard wedge language = German



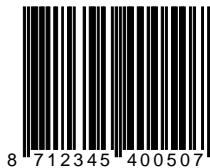
3.4.14

Keyboard wedge language = user defined



3.4.23

Keyboard wedge CapsLock switched Off



3.4.30

Keyboard wedge CapsLock switched On



3.4.31

Inter character delay 0 msec



3.4.35

Inter character delay 1 msec



3.4.36

Inter character delay 2 msec



3.4.37

Inter character delay 5 msec



3.4.38

Inter character delay 10 msec



3.4.39

Inter character delay 20 msec



3.4.40

Inter character delay 50 msec



3.4.41

Inter character delay 100 msec



3.4.42

Inter character delay 200 msec



3.4.43

Inter character delay 500 msec



3.4.44

EAN/UPC (AddOn Off) On



4.1.1

EAN/UPC/AddOn Off



4.1.2

EAN/UPC + AddOn mandatory



4.1.4

EAN/UPC + AddOn mand. for 379/434/439/529/977,
optional for others



4.1.5

EAN/UPC + AddOn mand. for 379/434/439/529/977,
not sent for others



4.1.6

AddOn5 only on (AddOns must be selected)



AddOn5 only Off (AddOns must be selected)



Price check digit verify Off (EAN13)



Price checkdigit verify, 4 digits price field (EAN13/UPCA)



Price checkdigit verify, 5 digits price field (EAN13/UPCA)



4.1.11

Code 128/EAN 128 On



4.1.20

Code 128/EAN 128 Off



4.1.21

Code 39 On



4.1.25

Code 39 full ascii On



4.1.26

Code 32 On



4.1.27

Code 39/Code 32 Off



4.1.28

Codabar On



4.1.30

Codabar Off



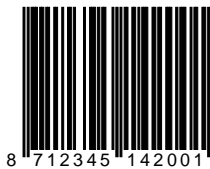
4.1.31

Interleaved 2/5 On



4.1.35

Interleaved 2/5 Off



4.1.36

Setting minimum length Code 128



4.2.1

Setting minimum length Code 39



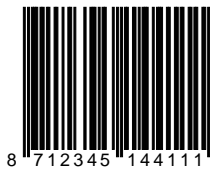
4.2.2

Setting minimum length Codabar



4.2.3

Setting minimum length Interleaved 2/5



4.2.4

Set fixed length 1 Code 128



4.2.5

Set fixed length 1 Code 39



4.2.6

Set fixed length 1 Codabar



4.2.7

Set fixed length 1 Interleaved 2/5



4.2.8

Set fixed length 2 Code 128



4.2.9

Set fixed length 2 Code 39



4.2.10

Set fixed length 2 Codabar



4.2.11

Set fixed length 2 Interleaved 2/5



4.2.12

Length = 4



4.2.15

Length = 6



4.2.16

Length = 8



4.2.17

Length = 10



4.2.18

Length = 12



4.2.19

Length = 14



4.2.20

Length = 16



4.2.21

Length = 18



4.2.22

Length = 20



4.2.23

Length = 22



4.2.24

Length = 24



4.2.25

Length = 26



4.2.26

Length = 28



4.2.27

Length = 30



4.2.28

Length = 32



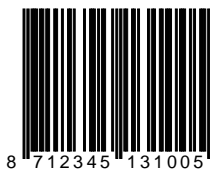
4.2.29

Open/close without update programming mode preambles



5.1.1

Exit programming mode preambles with update



5.1.2

Postamble = CR



5.2.1

Postamble = LF



5.2.2

Postamble = CR + LF



5.2.3

Postamble = free format



5.2.4

Open/close without update programming mode postambles



Close programming mode postambles with update



Set message format with code identifiers



Set message format without code identifiers



Identifiers On



5.3.5

Identifiers Off



5.3.6

Setting identifier EAN13



5.3.10

Setting identifier EAN8



5.3.11

Setting identifier UPCA



5.3.12

Setting identifier UPCE



5.3.13

Setting identifier EAN 128



5.3.14

Setting identifier Code 128



5.3.15

Setting identifier Code 39



5.3.16

Setting identifier Code 32



5.3.17

Setting identifier Codabar



5.3.18

Setting identifier Interleaved 2/5



5.3.19

Exit programming free programmable identif. with update



Exit programming free programmable ident. without update



AddOn format with separator



AddOn format without separator



UPCA format transmitted as UPCA (12 digits)



5.4.3

UPCA format transmitted as EAN13 (with leading zero)



5.4.4

UPCE format UPCE to UPCA expansion On



5.4.5

UPCE format UPCE to UPCA expansion Off



5.4.6

UPCE format with leading zero



UPCE format without leading zero



UPCE format with check digit



UPCE format without check digit



Code 128/EAN 128 send FNC1 as]C1



5.4.15

Code 128/EAN 128 do not send FNC1 as]C1



5.4.16

Transmit printable characters only



5.4.20

Transmit printable and non-printable characters



5.4.21

'SOH'



6.1.1

'STX'



6.1.2

'ETX'



6.1.3

'EOT'



6.1.4

'0'



6.1.5

'A'



6.1.6

'B'



6.1.7

'C'



6.1.8

'D'



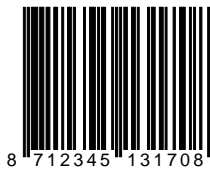
6.1.9

'E'



6.1.10

'F'



6.1.11

BS'



*

'HT'



*

'LF'



*

'VT'



*

'FF'



*

'CR'



*

'ESC'



*

'#'



*

'%'



*

'&'



*

'*'



*

'I'



*

'K'



*

'M'



*

'N'



*

'S'



*

'X'



*

'Y'



*

'Z'



*

'I'



*

'DEL'



*

Special key F1 KBW communication



6.1.15

Special key F2 KBW communication



6.1.16

Special key F3 KBW communication



6.1.17

Special key F4 KBW communication



6.1.18

Special key F5 KBW communication



6.1.19

Special key F6 KBW communication



6.1.20

Special key F7 KBW communication



6.1.21

Special key F8 KBW communication



6.1.22

Special key F9 KBW communication



6.1.23

Special key F10 KBW communication



6.1.24

Special key F11 KBW communication



6.1.25

Special key F12 KBW communication



6.1.26

Special key Tab KBW communication



6.1.30

Special key Enter (alpha) KBW communication



6.1.31

Special key Enter (num) KBW communication



6.1.32

Special key Backspace KBW communication



6.1.33

Special key Delete KBW communication



6.1.34

Special key Esc KBW communication



6.1.35

Special key Arrow left KBW communication



6.1.36

Special key Arrow right KBW communication



6.1.37

Special key Arrow up KBW communication



6.1.38

Special key Arrow down KBW communication



6.1.39

Special key Page up KBW communication



6.1.40

Special key Page down KBW communication



6.1.41

Special key Home KBW communication



6.1.42

Special key End KBW communication



6.1.43



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