

CL4NX HF RFID Configuration Guide

Thank you for choosing a SATO RFID Printer. This guide will help configure the printer to encode your inlays.

1 Examine Labels to determine printer settings.

Four Easy Steps of RFID Configuration

2 Set up printer.
A) Menu Settings
B) Physical Antenna Position

3 Set Labels and Carbo n Ribbon.

4 Confirm operation by printing/encoding a label.

Refer to the CL4NX Operator Manual for more information.
You can access the CL4NX Operator Manual from the website for your region linked from www.satoworldwide.com.

1 Examine labels.

Refer to the **CL4NX HF Inlay Configuration Guide** for what measurements you should take and what they mean, as well as a list of inlays and their required configurations.

2 Set up printer.

A) Menu Settings:

Adjust the Antenna position according to required levels on attached list.



Select Intenace					
(► (Right Arrow) button on the					
Operator Panel, and 🛹 button					
to confirm)					

First edition: Jun 2015 ©2015 SATO CORPORATION · Explanation of RFID menu items

Tag Offset		Distance to print on label BEFORE pausir (mm in unit) This setting will be used whe with the CL4NX's antenna positions. For r patible antenna positions, refer to the attac ment and Configuration Table.	
Reader Model		Display model of installed RFID reader mo	
Reader Version		Display firmware version of installed RFID	
View		When selected printer will attempt to read printer. Select the memory bank from which to rea "UID"	
Retry Mode		Determine whether to retry encoding of fai "Retry", "Release" The Release option deletes the current pri move on to the next print job. When Retry continue to attempt encoding the same date	
Retries		Number of failed encoding attempts befor "0 - 1 - 9"	
Mark Bad Tags		Mark bad tags with slash marks. "Enable'	
Non-RFID Warning		Allows interruption of printing when the ite an RFID issue command,, if you have ena ing" settings in a printer that outputs RFID	
Log RFID Data		Record encoded tag information. "Disable	
Output Error Mode		Allows the user to set the signal type for F	
Pulse Length		Allows the user to select the length of an I This menu is displayed when the <i>Output E</i> " 100ms ", "200ms", "300ms", "400ms", "50	
Counters			
	Life time	Life time counter displays the number of e and total attempts. (Count Success, Coun	
	User	User counter displays the number of enco and total attempts. (Count Success, Coun The counter can be reset using the right so counter is 1 or higher.	

* BOLD items are default settings.

ing to encode RFID. "**0** - 240" nen labels aren't compatible more information about comached *CL4NX HF Inlay Place*-

D reader module.

d the tag currently set in the

ead information. "USER",

ailed data after error recovery.

rint job, allowing the printer to y is selected, the printer will data.

re error warning/print pause.

", "Disable"

tems received do not contain habled the "Non-RFID Warn-D labels to be attached.

le", "Enable"

RFID errors. "Pulse", "Level"

RFID error pulse. *Error Mode* is set in *Pulse*. 00ms"

encoding successes, failures, Int Failure, Count Total)

coding successes, failures, int Failure, Count Total) soft button (**CLEAR**) when the



B) Physical Antenna Position

Adjust the physical position of the antenna according to the settings required for the specific label and inlay used.



3 Set Labels and Carbon Ribbon.

Refer to the sticker on the printer's top cover, the help videos in the printer menu, and the Operator Manual for more information.

4 Confirm operation by printing/encoding a label.

Be sure to read the data and check that it is correctly encoded.

RFID Printing Tips

A) Recommended no-print zone

Avoid printing barcodes or characters directly on top of an RFID chip. The uneven surface will negatively affect print quality.

B) Printing of RFID tag errors

The printer can be set to print an RFID tag error when there is a problem with the recorded data, for example in a write to a defective tag, in order to prevent accidental distribution of a defective label. Depending on the error and the print command paper size setting, a diagonal line or a cross will be printed, together with a description of the error.

· List of errors printed

	Message		Ca
	TAG NOT FOUND	Cause	Tag canno
		Countermeasure	Confirm in
	WRITE TAG ERROR	Cause	Writing fai
		Countermeasure	Confirm in
	PROTECT TAG ERROR	Cause 1	An attemp
		Cause 2	An attemp
		Countermeasure	Use a labe
	VERIFY TAG ERR.	Cause	The writte
		Countermeasure	Confirm in configurat
	LOCKING ERROR	Cause 1	Lock proc
		Cause 2	Lock proc
		Countermeasure	Check if th is correct.
	WRONG TID ERROR	Cause	A tag type detected.
		Countermeasure	Ensure that
	MULTI TAGS ERROR	Cause	Multiple ta
		Countermeasure	Confirm in

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ause and Countermeasure

not be found, or reading failed.

inlay operation and check printer / antenna configuration. ailed.

nlay operation and check printer / antenna configuration.

pt was made to write to a tag with the write lock set.

pt was made to write to a non-writable address.

bel with the lock not set.

en value and the read value are not identical.

inlay operation and check the printer/antenna ation.

cessing failed because the label has been locked.

cessing failed because the antenna output is weak.

the label was locked and if the inlay antenna placement

e other than that specified in command data was

hat command tag type matches actual label/tag.

tags captured simultaneously.

nlay operation and check printer / antenna configuration.