General Functions — **LED and Beeper Indications**

INDICATION	DESCRIPTION	LED	BEEPER
Power-up Beep	The reader is in the process of powering-up.		Reader beeps four times at highest frequency and volume upon power-up.
Good Read Beep	A label has been successfully scanned by the reader.	LED behavior for this indication is configurable via the feature "Good Read: When to Indicate"	The reader will beep once at current frequency, volume, mono/bi-tonal setting and duration upon a successful label scan.
ROM Failure	There is an error in the reader's soft- ware/programming	Flashes	Reader sounds one error beep at highest volume.
Limited Scanning Label Read	Indicates that a host connection is not established when the IBM or USB interface is enabled.	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily ^a	N/A
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A
Green Spot is on continuously	While in Object Sense mode or Trigger Object Sense mode the green spot shall be on while in stand watch state.	N/A	N/A
Green Spot ^a flashes momentarily	Upon successful read of a label, the software shall turn the green spot on for the time specified by the configured value.	N/A	N/A

Programming Mode - The following indications ONLY occur when the reader is in Programming Mode.

Label Programming Mode Entry	A valid programming label has been scanned.	LED blinks continuously	Reader sounds four low frequency beeps.
Label Programming Mode Rejection of Label	A label has been rejected.	N/A	Reader sounds three times at lowest frequency & current volume.
Label Programming Mode Acceptance of Partial Label	In cases where multiple labels must be scanned to program one feature, this indication acknowledges each portion as it is successfully scanned.	N/A	Reader sounds one short beep at highest frequency & current volume.
Label Programming Mode Acceptance of Programming	Configuration option(s) have been successfully programmed via labels and the reader has exited Programming Mode.	N/A	Reader sounds one high frequency beep and 4 low frequency beeps followed by reset beeps.
Label Programming Mode Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds two times at low frequency and current volume.

a. Except when in sleep mode or when a Good Read LED Duration other than 00 is selected

BT Beeper Indications

Beep Type	Description	Behavior
Acknowledge (ACK) Label	A label has been sent to the Base Station, which has accepted the data and responded. Control via ACK NAK Options on page 57.	beep. Duration, frequency and volume vary, since these are all configurable for this feature.
Label Rejected	Label data sent is rejected by the Base Station (responds with NAK). Control via ACK NAK Options on page 57.	2 beeps at low frequency.
Transmission Error	A label has been sent to but not received by the Base Station (ACK timeout occurred). Control via Indicate Transmission Failure on page 67.	Beep will sound High-low-high-low.
Link Successful	The Linking process has completed successfully between a reader and Base Station (or PC).	Beep will sound Low-med-high.
Link Unsuccessful	The Linking process has completed (timed out) without connecting to a Base (or PC).	Beep will sound High-low-high-low.
Unlink	The reader has unlinked from the Base Station.	Beep will sound High-medium-low.
Paging	Base Station is paging the reader.	5 beeps at high volume and currentGood Read Beep Frequency setting.
BT Reader FRU	The reader will sound this upon detecting aField Replaceable Unit (FRU) error at startup.	1 long error tone ^a .
Disconnect	Sounds when the reader disconnects from the Base Station due to out of range, low power, etc. Control via Disconnect Beep on page 279.	Beep will sound High-medium-low. (Same as Unlink)
Good Read Disconnected	A label is read while disconnected, and BT Poll Rate on page 288 is disabled.	1 long beep at low frequency.
Good Read Unlinked	A label is read while unlinked.	Beep will sound High-low-high-low.
Leash mode	The Handheld has disconnected, and BT Leash Alarm on page 280 is enabled.	Beep will sound at high volume, low frequency for the count specified in BT Leash Alarm on page 280.
Low Battery	The battery is getting low	10 beeps at high frequency
Battery Shutdown	The battery has reached a critical low level and the handheld will shut down.	Beep will sound High-medium-low

a. Upon hearing a long error tone at startup, press the trigger to hear the FRU error beep sequence described in Error Codes on page 317.

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BT LED Indications

		Applies to:	
LED Indication	Behavior	Base Station	Reader
Linking in progress	Yellow LED blinks at 2 Hz	YES	YES
Low battery	Green LED blinks 10 times after either of the following events occur: -After every 10th trigger pull. -After 30 seconds of idle time. NOTE: Low battery LED indication coincides with the low battery beep.	NO	YES
Disconnected	LEDs off	YES	YES
Unlinked	LEDs off	YES	YES
BT transmission in progress	Flash yellow LED at 50 Hz while transmitting.	YES	YES
Paging	Yellow LED blinks at the same rate as the paging beep (1 hz)	YES	YES
BT Reader FRU indication	See the topic Error Codes on page 317.	NO	YES
BT Base Station FRU indi- cation	See the topic Error Codes on page 317.	YES	NO
Disabled indication	Green LED blinks once a second while disabled	NO	YES
Battery charge in progress	Green LED blinks once a second while charging	YES	NO
Battery charge complete	Green LED stays ON when charge is complete and reader is seated in the Base Station.	YES	NO
Battery charge error	Yellow LED blinks 550mS on/1500mS off when there is a charge error and reader is seated in the Base Station.	YES	NO

Error Codes

Upon startup, if the reader sounds a long tone, this means the reader has not passed its automatic Selftest and has entered FRU¹ isolation mode. If the reader is reset, the sequence will be repeated. The following table describes the LED flashes/beep codes associated with an error found.

NUMBER OF LED FLASHES/BEEPS	ERROR	CORRECTIVE ACTION
1	Configuration	
2	Interface PCB	
4	Reader Module	Contact Holadock for accietance
5	Laser Pointer (if so equipped)	Contact Helpdesk for assistance
6	Digital PCB	
14	CPLD/Code Mismatch	

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^{1.} Field Replaceable Unit (FRU)