

Front Panel Password Protection for Link-OS™ Printers

Front Panel Password Protection

The latest release of Link-OS™ adds the ability to protect access to the Front Panel. This new feature requires entering a password before modifying a Front Panel item.

This capability is available to all Link-OS printers with a Front Panel, except for the standard QLn220, QLn320, ZQ510 and ZQ520 printers. To use these new front panel password features on your Link-OS printer, update the printer to one of the following Operating System builds (or later):

Printer Model Type	Link_OS Build
QLn Series	V68.19.13Z or later
ZT200 Series	V72.19.13Z or later
ZD500 Series	V74.19.13Z or later
ZT400 Series	V75.19.13Z or later

Printers that have this capability have a new item in the “Tools” menu – “Password Protect”, which provides the following three option levels of protection:

- ALL
 - All Front Panel Items that can be modified are protected
- SELECTED
 - Protects a pre-selected set of items on the Front Panel.
 - The pre-selected set of protected items are listed in [Appendix 1](#)
 - Which items are protected can be changed by modifying Front Panel WML script files
- NONE
 - None of the Front Panel items are protected when this setting is selected.

Password Protection Commands

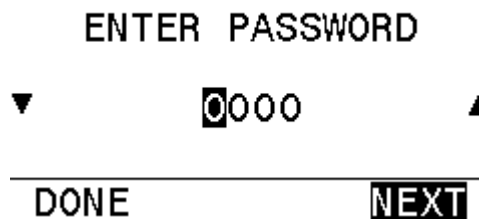
There are two Set-Get-Do (SGD) commands and one ZPL command that control the Front Panel password system.

- `display.password.level`
 - This SGD sets the password protection level.
 - Choices are “all”, “selected”, and “none”. (See above)
 - The default value for QLn420 and the Healthcare models of QLn220 and QLn320 is “SELECTED”.
 - The default value for ZT230, ZT410, ZT420, ZD500 and ZD500R is “NONE”.
- `display.password.current`
 - Sets the current password.
 - For security purposes, when retrieving this value via a getvar, only “*” is returned.

- ^KP
 - This is the ZPL command that sets the password. (See the Zebra Programming Guide)
 - ^KP and display.password.current are two ways of setting the same password.

Entering a Front Panel Password

When a password is required, the printer displays the ENTER PASSWORD screen (example shown below).

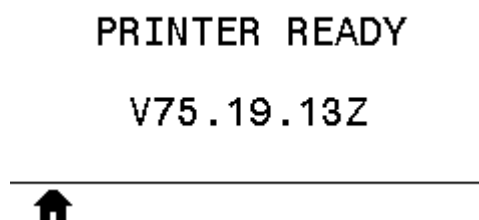


Use the up and down arrows to change the current digit. When the current digit is set correctly, use the NEXT button to advance to the next digit. When the password is complete, press the DONE button to indicate that the password has been entered.

Only one password entry is needed for each Front Panel session. A session is defined as extending from the time the Home screen is first displayed (example shown below),



until the time you return to the idle screen. (example shown below)



Once the correct password is entered, the menu is considered unlocked until the end of the sessions, as defined above.

Appendix 1

Items protected when “selected” is used

The tables below are organized by menu area. A “No” indicates that the item is not protected. “Yes” indicates the item is protected. “N/A” indicates the item isn’t present in that menu on that particular printer model.

Note: Not all menus or menu items are present on all printers.

Because the Network menu varies significantly from printer to printer, separate tables are shown for some printers.

1. Settings Menu

Item	QLn420	ZD500	ZT230	ZT400
Darkness	No	No	No	No
Print Speed	No	No	No	No
Media Type	Yes	No	No	No
Print Method	No	No	No	No
Tear Off	No	No	No	No
Print Width	No	No	No	No
Print Mode	No	No	No	No
Label Top	No	No	No	No
Left Position	No	No	No	No
Reprint Mode	No	Yes	Yes	Yes
Label Length Max	No	No	No	No
Language	No	No	No	No
GoTo Tools	No	No	No	No

2. Tools Menu

Item	QLn420	ZD500	ZT230	ZT400
Help For	No	N/A	N/A	N/A
Print Information	No	No	No	No
LCD Contrast	No	No	No	No
LCD Backlight	No	No	N/A	N/A
Backlight Timeout	Yes	No	N/A	N/A
Idle Display	No	No	No	No
Power Up Action	No	Yes	Yes	Yes
Head Close Action	No	Yes	Yes	Yes
Printhead Light	N/A	N/A	N/A	No
Cover Open Light	N/A	N/A	N/A	No
Load Defaults	N/A	Yes	Yes	Yes
Manual Calibration	N/A	No	No	No

Label Length Cal	No	N/A	N/A	N/A
Diagnostic Mode	No	Yes	Yes	Yes
ZBI Enabled	No	No	No	No
Run ZBI Program	No	Yes	Yes	Yes
Stop ZBI Program	No	Yes	Yes	Yes
Print USB File	N/A	N/A	N/A	No
Copy USB File to E:	N/A	N/A	N/A	No
Store E: File to USB	N/A	N/A	N/A	No
Print Station	N/A	N/A	N/A	No
Password Protect	Yes	Yes	Yes	Yes
GoTo Network	No	No	No	No

3. Battery Menu

Item	QLn420	ZD500	ZT230	ZT400
Battery Eliminator	No	N/A	N/A	N/A
Health	No	N/A	N/A	N/A
Cycle Count	No	N/A	N/A	N/A
First Used	No	N/A	N/A	N/A
Serial Number	No	N/A	N/A	N/A
Timeout	Yes	N/A	N/A	N/A
Voltage	No	N/A	N/A	N/A
Warning	No	N/A	N/A	N/A
DTR Control	No	N/A	N/A	N/A
GoTo Language	No	N/A	N/A	N/A

4. RFID Menu

Item	QLn420	ZD500	ZT230	ZT400
RFID Country Code	N/A	No	N/A	No
RFID Status	N/A	No	N/A	No
RFID Calibrate	N/A	No	N/A	No
Read RFID Data	N/A	No	N/A	No
RFID Test	N/A	No	N/A	No
RFID Program Pos.	N/A	No	N/A	No
RFID Antenna	N/A	N/A	N/A	No
RFID Read Power	N/A	No	N/A	No
RFID Write Power	N/A	No	N/A	No
RFID Valid Count	N/A	No	N/A	No
RFID Void Count	N/A	No	N/A	No
GoTo Language	N/A	No	N/A	No

5. Language Menu

Item	QLn420	ZD500	ZT230	ZT400
Language	No	No	No	No
Command Language	Yes	N/A	Yes	Yes
ZPL Override	No	No	No	No
Command Char	No	Yes	Yes	Yes
Control Char	No	Yes	Yes	Yes
Delimiter Char	No	Yes	Yes	Yes
ZPL Mode	No	Yes	Yes	Yes
Virtual Device	No	Yes	Yes	Yes
GoTo Sensor	No	No	No	No

6. Sensors Menu

Item	QLn420	ZD500	ZT230	ZT400
Sensor Type	N/A	No	No	No
Media Status	No	N/A	N/A	N/A
Manual Calibration	N/A	No	No	No
Label Length Cal	No	N/A	N/A	N/A
Print Information	N/A	No	No	No
Label Sensor	N/A	Yes	Yes	Yes
Take Label	No	Yes	Yes	Yes
GoTo Ports	No	No	No	No

7. Ports Menu

Item	QLn420	ZD500	ZT230	ZT400
Baud Rate	No	Yes	Yes	Yes
Data Bits	No	Yes	Yes	Yes
Parity	No	Yes	Yes	Yes
Stop Bits	No	N/A	N/A	N/A
Host Handshake	No	Yes	Yes	Yes
Parallel Mode	N/A	No	N/A	N/A
Halt on Error	No	N/A	N/A	N/A
About	N/A	No	No	No
GoTo Bluetooth	No	No	No	No

8. Bluetooth Menu

Item	QLn420	ZD500	ZT230	ZT400
BT Address	No	No	N/A	No
Mode	No	No	N/A	No
Discovery	No	No	N/A	No
Connected	No	No	N/A	No
BT Spec Version	No	No	N/A	No
Min Security Mode	No	No	N/A	No
MFI Capability	No	N/A	N/A	N/A
GoTo Settings	No	No	N/A	No

9. QLn Network Menu

Item	QLn420
Active Print Server	No
WLAN Status	No
WLAN IP Address	No
WLAN Subnet Mask	No
WLAN Gateway	No
WLAN IP Protocol	No
WLAN MAC Address	No
ESSID	No
AP MAC Address	No
Channel	No
Signal	No
Wired IP Address	No
Wired Subnet Mask	No
Wired Gateway	No
Wired IP Protocol	No
Wired MAC Address	No
IP Port	No
IP Alternate Port	No
Print Information	No
GoTo Battery	No

10. ZD500,ZT400 Network Menu

Item	ZD500	ZT400
WLAN Country Code	No	N/A
Active Print Server	N/A	No
Primary Network	No	No
Wired IP Address	Yes	Yes
Wired Subnet Mask	Yes	Yes
Wired Gateway	Yes	Yes
Wired IP Protocol	Yes	Yes
Wired MAC Address	No	No
WLAN Status	No	N/A
WLAN IP Address	Yes	Yes
WLAN Subnet Mask	Yes	Yes
WLAN Gateway	Yes	Yes
WLAN IP Protocol	Yes	Yes
WLAN MAC Address	No	No
ESSID	No	No
Channel	No	No
Signal	No	No
IP Port	No	No
IP Alternate Port	No	No
Print Information	No	No
Reset Network	No	No
Load Defaults	Yes	Yes
GoTo RFID	No	No

11. ZT230 Network Menu

Item	ZT230
IP Address	Yes
Subnet Mask	Yes
Gateway	Yes
IP Protocol	Yes
Active Print Server	No
MAC Address	No
ESSID	No
IP Port	No
IP Alternate Port	No
Print Information	No
Reset Network	No
Load Defaults	Yes
GoTo Language	No

Please note that the information in the above tables is subject to change without notice.

Document Control

Version	Date	Description
0.1	July 10, 2015	Initial version
0.2	July 14, 2015	PM Updates
0.3	July 16, 2015	Add version table
0.4	July 27, 2015	Fixed numbering
0.5	August 27, 2015	Minor wording changes
1.0	August 28, 2015	Version 1 released in Agile on Aug 31, 2015

Disclaimer

All links and information provided within this document are correct at time of writing.