User's Manual PL12-1097EN

03/29/2017



Electronic Counter



For additional product information visit our website at http://www.clecotools.com/tulman



Table of Contents

S	oftware User's Instructions:	
	Cleco® TULMan™ Software Installation	4
	Connect Cleco® TULMan™ using a micro USB cable	7
	Cleco® TULMan™ Software Connection and Launch	
	Starting the Program	7
	Unlock a Mode	9
	Password Mode	10
	Tool Room Mode	10
	Programming Mode	11
	Quick Guide to Programming	12
	File Download	12
	Appendices	15
	Appendix 1: Runtime Calculator	16
	Appendix 2: Cycle Count Examples	17
	Appendix 3: End User License Agreement	20
ΕI	lectronic Counter Instructions:	
	Safety	22
	Personal Protective Equipment	22
	Designated Use	22
	Operating Condition	22
	Battery	22
	Product Description	22
	Counter Assembly	22
	Tool Integration	22
	Connect to Computer	23
	Battery Replacement	23

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03/29/2017

Software Installation



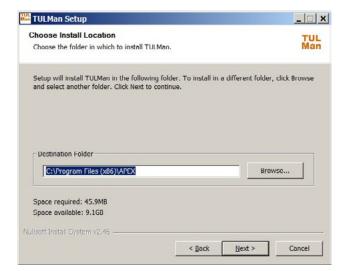
Cleco®TULMan™ Software Installation:

- 1. Free WEB download at http://www.clecotools.com/tulman
- Launch the executable file and follow the on screen instructions: TULMan +Setup. exe

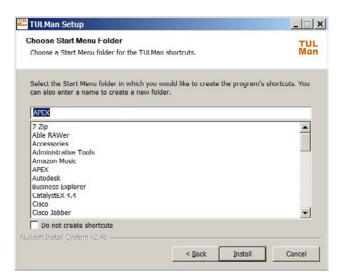
Click "Next" to continue.



Choose Install Location screen Click "Next" to continue.



4. Choose Start Menu Folder screen Default start menu folder: APEX Click "Install" to continue.





Software Installation

5. Installation Complete screen

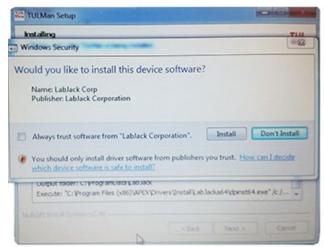
Click "Next" to continue.

NOTE: Required drivers to access the Cleco® TULManTM product will also be installed, accept installation of these drivers and follow the on screen instructions.

Installation of NI Labview Runtime may also be required - Accept this install.

Windows Security





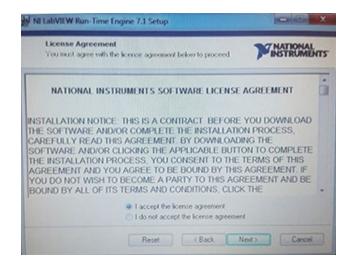
NI LabVIEW Run-Time



Software Installation



NI LabVIEW Run-Time License Agreement



6. Installation Complete screen





Connect Cleco® TULMan™ using a micro USB cable:



Starting the Program

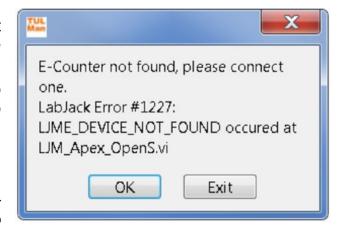
- 1. Connect the Cleco® TULMan™ to a computer using a USB-Micro USB cable.
- 2. Open the Cleco® TULMan™ software.

The connection error, shown to the right, will appear if the software fails to detect the Cleco® TULMan™. This can be caused by one of the following conditions:

- Opening the software prior to connecting the Cleco[®] TULMan[™] to the computer
- Damaged USB-Micro USB cable
- Cleco® TULMan™ driver not installed

The error message will disappear after connection between the Cleco® TULMan™ and the computer has been established.

Click OK

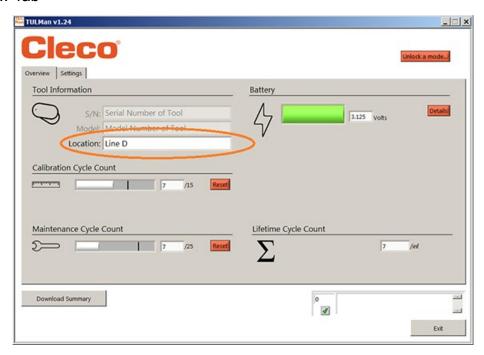


Software Connection and Launch



3. Click OK and you can view the data on the counter.

Overview Tab



Settings Tab





Software Connection and Launch

4. Unlock a Mode

On the settings tab you can unlock one of the 3 modes.



Note: There are 2 additional modes for factory use only; Advanced and Factory.

Tool Room - Default PW - Tool



Programming - Default PW - Programming

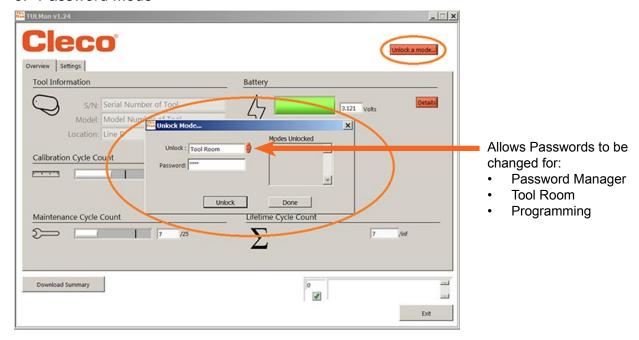


Password Manager - Default - Password





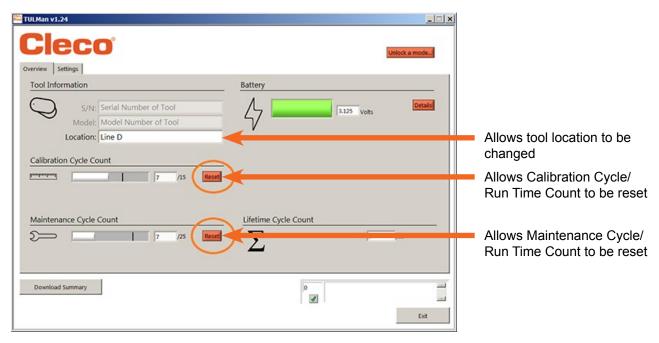
5. Password Mode



IMPORTANT: Maintain a record of the passwords set. If a password is forgotten it is NOT possible to recover.

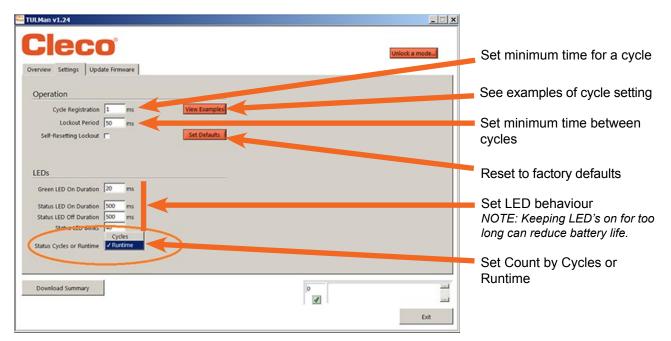
Note: The passwords can not be changed for the factory use only modes; Advanced and Factory.

6. Tool Room Mode

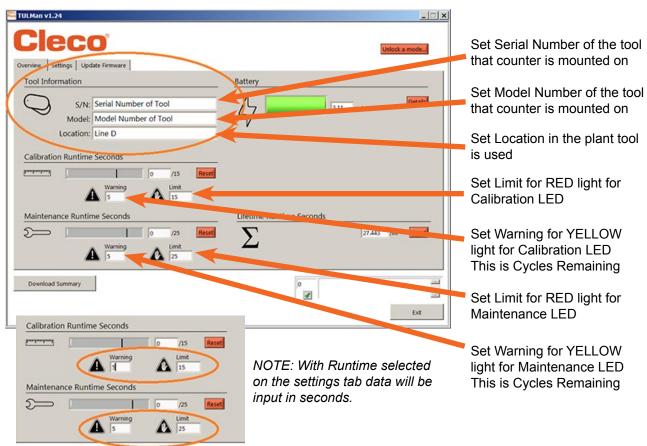




7. Programming Mode - Settings



8. Programming Mode - Overview





9. Quick Guide to Programming

On the settings tab select Cycle or Runtime.

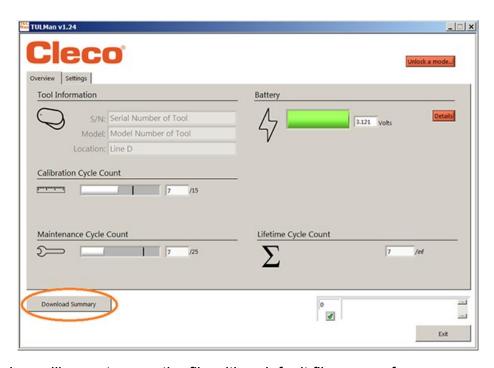
- Use Cycle for torque controlled Screwdrivers with clutches.
- Use Runtime for varying cycle time tools such as Drills or Sanders.

In Cycle mode additional settings can be used for a more accurate cycle count, these are NOT used with Runtime. Refer to the examples in the Software or in Appendix. Consult the tool manufacturer or use previous data to establish warnings and limits for the Calibration and Maintenance setting. It is recommended that the warning is at least one shift before the limit.

In Runtime mode time should be input in seconds. Consult the tool manufacturer or use previous data to establish warnings and limits for the Calibration and Maintenance setting. It is recommended that the warning is at least one shift before the limit. For hours to seconds conversion see Appendix Runtime Calculator.

10. File Download

File download is allowed in any Mode. Click the Download Summary box on the Overview tab.



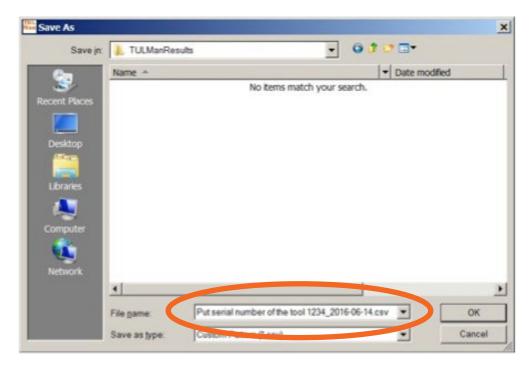
A dialog box will open to save the file with a default file name of:

Tool serial number year month day.csv

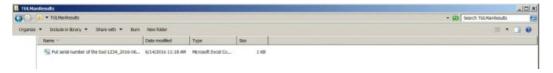
Select a location on your computer to save the .csv file. It is recommended that you create a folder specifically for the results files.



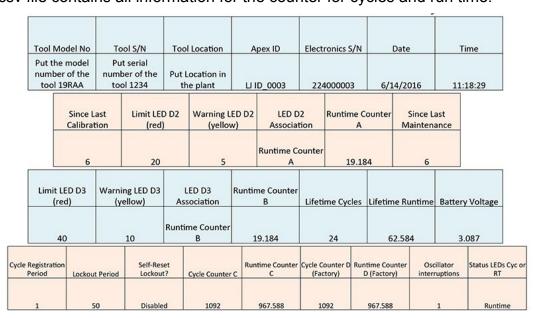




The csv file can be opened in Microsoft Excel either through file open, select file type .csv or locating the file in windows explore and double clicking the file.



The csv file contains all information for the counter for cycles and run time.



Counter A = Calibration Counter, LED 2
Counters C and D are Factory Use Only

Counter B = Maintenance Counter, LED 3



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Appendices

- Appendix 1: Runtime Calculator
- Appendix 2: Cycle Count Examples
- Appendix 3: End User License Agreement



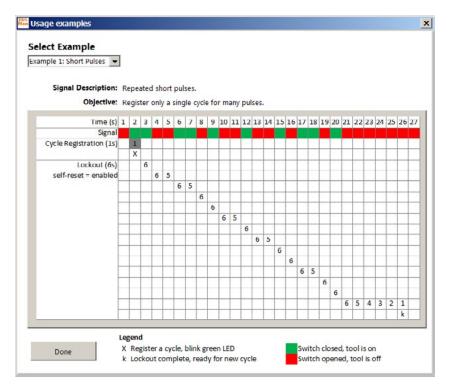
Appendix 1: Runtime Calculator

Hours	Seconds
1	3600
8	28800
16	57600
24	86400
50	180000
100	360000
200	720000
300	1080000
500	1800000
1000	3600000

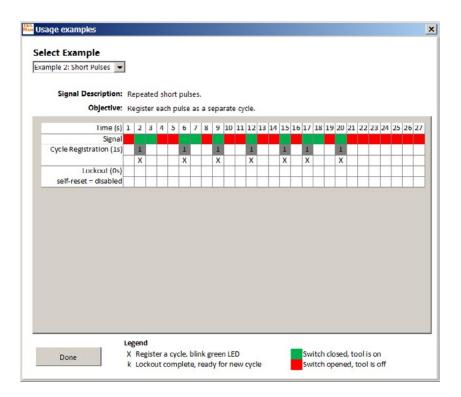


Appendix 2: Cycle Count Examples

Example 1: Short Pulses



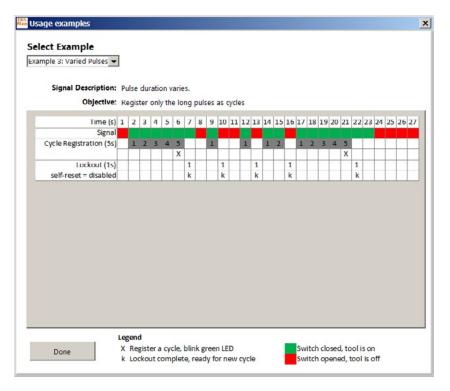
Example 2: Short Pulses



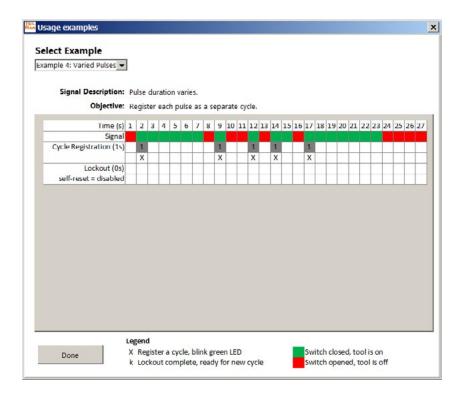


Appendix 2: Cycle Count Examples (continued)

Example 3: Varied Pulses



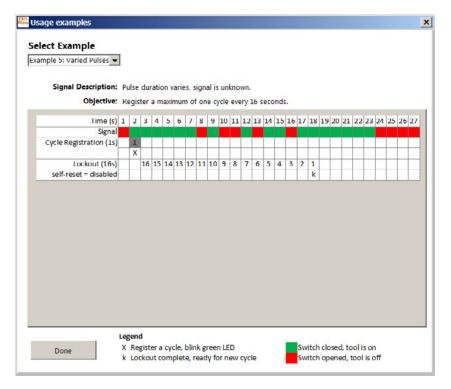
Example 4: Varied Pulses





Appendix 2: Cycle Count Examples (continued)

Example 5: Varied Pulses





Appendix 3: End User License Agreement

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Electronic Counter Instructions



Safety

Personal Protective Equipment

The electronic counter is an add-on accessory for small pneumatic tools. Wear proper personal protective equipment required for operation the pneumatic tool which the electronic counter is connected to.

Designated Use

The electronic counter is designed exclusively to be used with small pneumatic tools.

- Do not modify the circuit board
- Do not modify the electronic counter assembly

Operating Condition

Maximum Pressure: 100 Psi (700 Kpa)

Operating and storage temperature:

-22°F to 140°F (-30°C to 60°C)

Battery

- · CR1632 battery only
- Do not recharge

Product Description

- · Electronic counter
- E-Counter
- Cleco® TULMan™ Device
- Counter

Counter Assembly



Tool Integration

The electronic counter can be easily integrated to common small pneumatic tools. Other than adaptations designed for a specific tool, the following configurations are also available.

Tool Air Inlet Thread:

The Cleco® TULMan™ thread is 1/4" NPT. To connect to other thread sizes use either a solid adapter or a whip hose adapter.

Connection Method: Whip Hose



Connection Method: Pipe Nipple



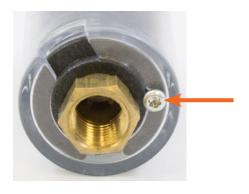


Connect to Computer

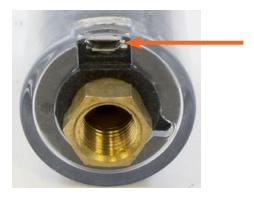
The counter can be connected to a computer using the micro-USB port built into the counter circuit board. Refer to the Software User's Instructions in this manual for details regarding the software interface. Following are the steps required for connection.

Step 1:

Remove the screw securing the counter cover.



Step 2: Rotate the cover to expose the micro-USB port.



Step 3: Connect the mico-USB cable to the counter.



Battery Replacement

Battery life can be monitored using the software. Refer to the Software User's Instructions in this manual. Following are the steps required to replace the battery.

Step 1:

Remove the screw securing the counter cover.

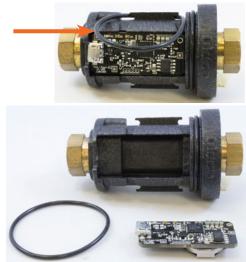


Step 2: Remove the counter cover.



Step 3:

The circuit board is held down by an O-Ring. Slide the O-Ring away from the circuit board.



Electronic Counter Instructions



Battery Replacement (continued)

Step 4:

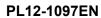
Remove the circuit board from the counter body.



Step 5: Replace the battery as shown.



Step 6: Reverse the previous steps to reassemble the counter.



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