

Electronic Counter Software Tool Usage and Life Management

Kevin Myhill

Direct 803-358-7698 Cell 803-556-9226

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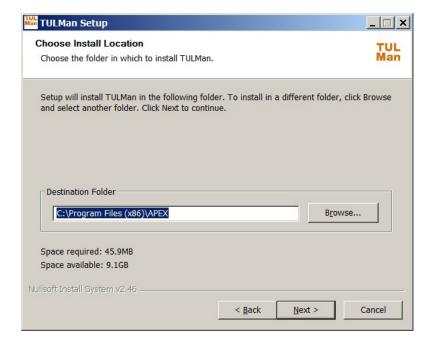
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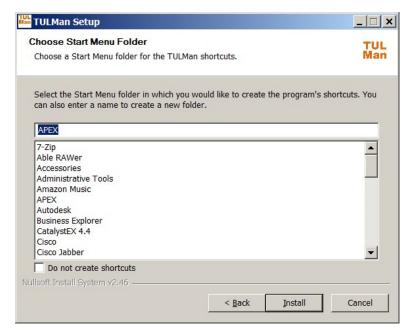
Launch the executable file and follow the on screen instructions

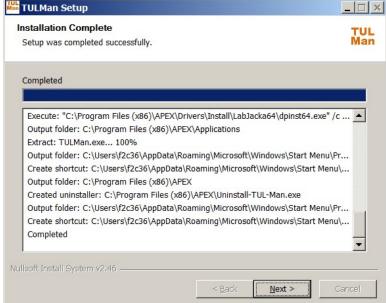
Man TULMan+Setup.exe





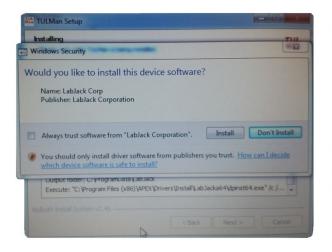


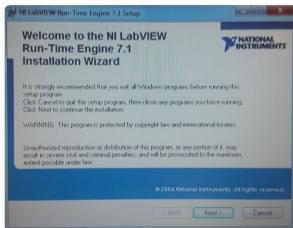


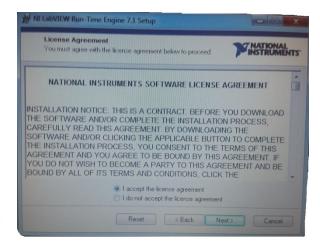


Note: Required drivers to access the TULMan product will also be installed, accept installation of these drivers









 Note: Required drivers to access the TULMan product will also be installed, accept installation of these drivers and follow the on screen instructions

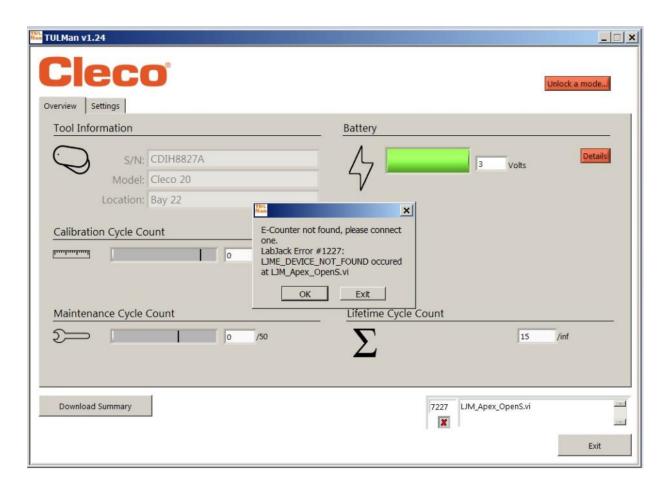






Launch the TULMan software

Frror occurs if TULMan is not connected





Connect TULMan using a micro USB cable



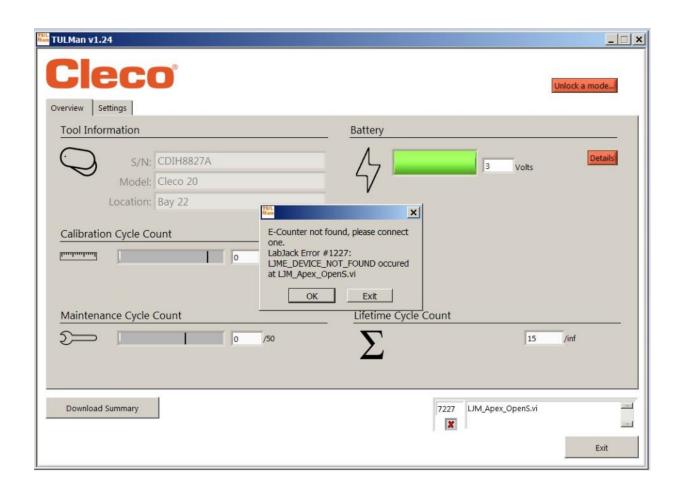
Note: Screw must be removed with a no. 10 torx bit and cover rotated to access the micro usb port

micro usb port





Click OK





Click OK and you can view the data on the counter

Overview tab





Unlock a Mode

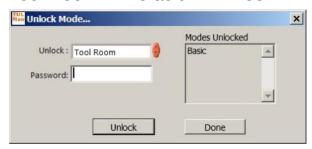


On the settings tab you can unlock one of the 3 modes



NOTE: There are 2 additional modes for factory use only Advanced and Factory

Tool Room - Default PW - Tool



Programming - Default PW - Programming



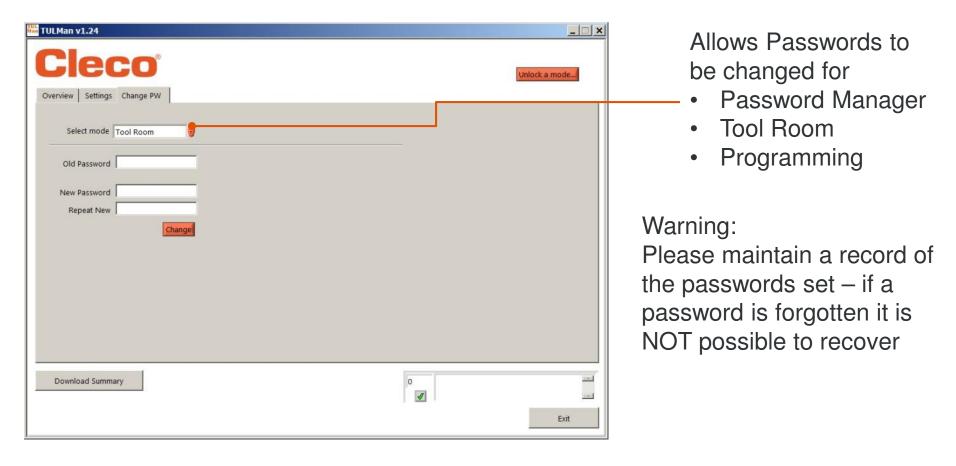
Password Manager - Default PW - Password



Password Mode



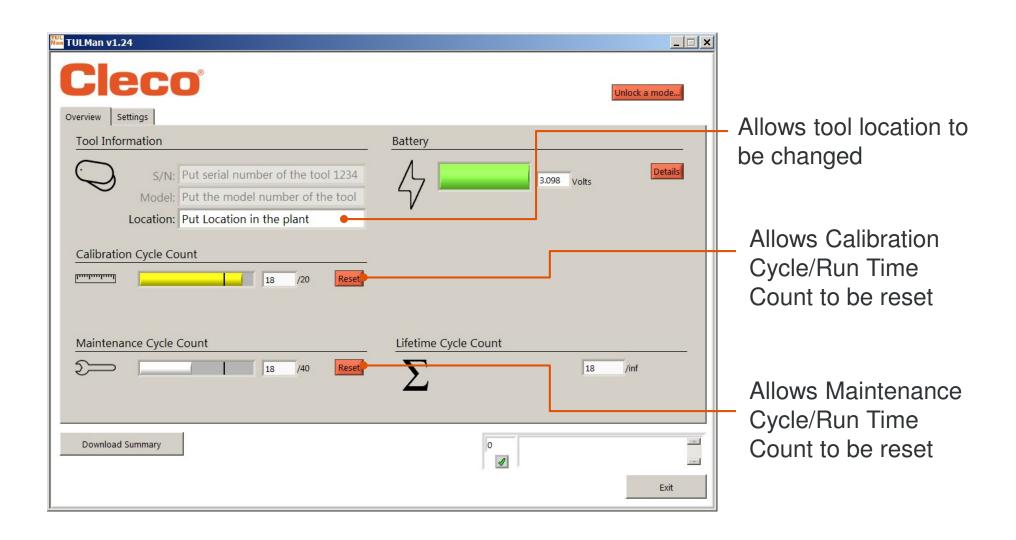
On the settings tab you can unlock one of the 3 modes



NOTE: The Passwords can not be changed for the factory use only modes Advanced and Factory

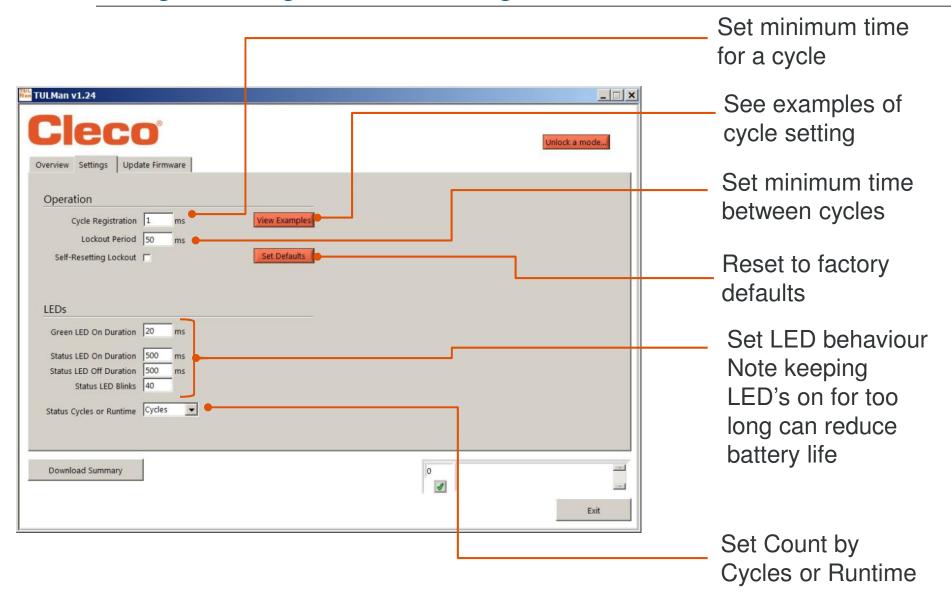
Tool Room Mode





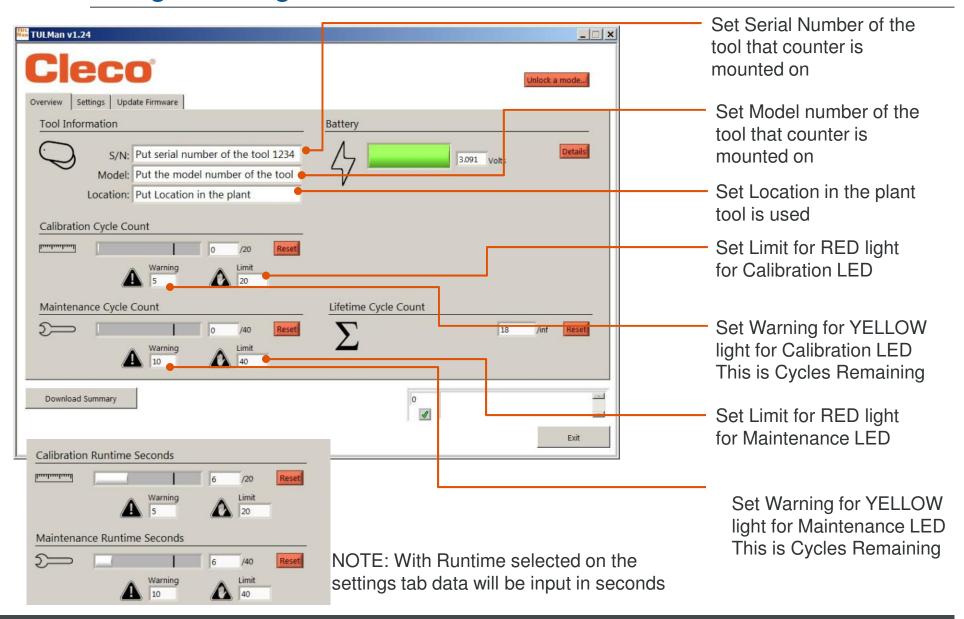
Programming Mode - Settings





Programming Mode - Overview





Quick Guide to Programming

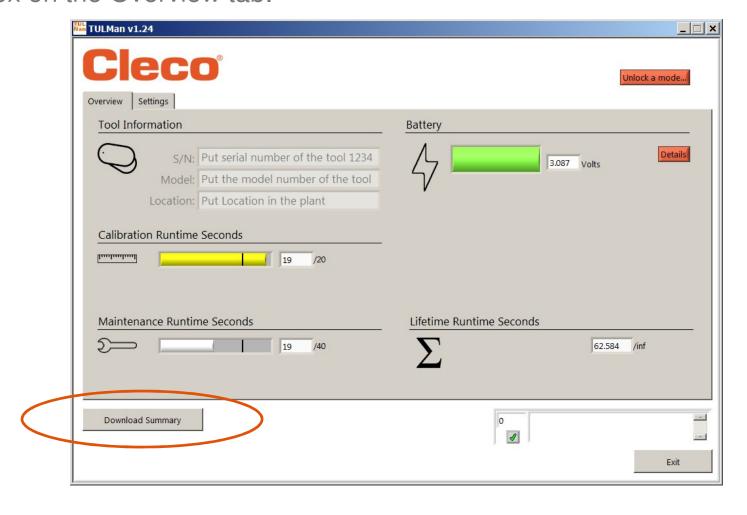


- On the settings tab select Cycle or Runtime
 - Use Cycle for torque controlled Screwdrivers with clutches
 - Use Runtime for varying cycle time tools such as Drills, Sanders
- In Cycle mode additional settings can be used for a more accurate cycle count, these are NOT used with Runtime. Refer to the 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 3. 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





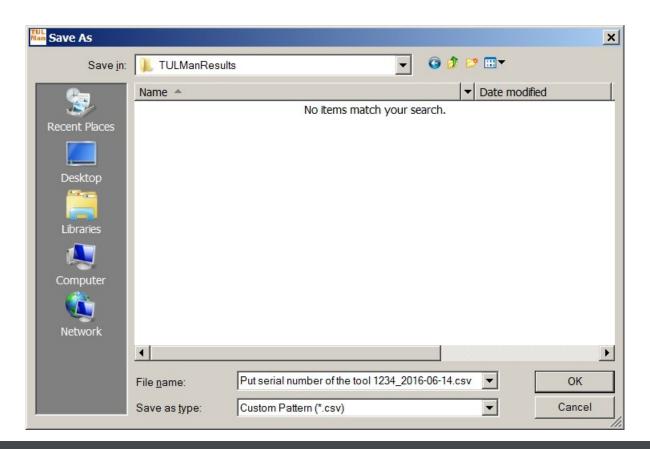
 File download is allowed in any Mode – click the Download Summary box on the Overview tab.



File Download



- 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



File Download



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



File Data



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

Tool Model No	Tool S/N	Tool Location	Apex ID	Electronics S/N	Date	Time
Put the model	Put serial					
number of the	number of the	Put Location in				
tool 19RAA	tool 1234	the plant	LJ ID_0003	224000003	6/14/2016	11:18:29

Since Last	Limit LED D2	Warning LED D2	LED D2	Runtime Counter	Since Last
Calibration	(red)	(yellow)	Association	Α	Maintenance
			Runtime Counter		
6	20	5	Α	19.184	6

Limit LED D3	Warning LED D3	LED D3	Runtime Counter			
(red)	(yellow)	Association	В	Lifetime Cycles	Lifetime Runtime	Battery Voltage
		Runtime Counter				
40	10	В	19.184	24	62.584	3.087

Cycle Registration		Self-Reset		Runtime Counter	Cycle Counter D	Runtime Counter	Oscillator	Status LEDs Cyc or
Period	Lockout Period	Lockout?	Cycle Counter C	С	(Factory)	D (Factory)	interruptions	RT
1	50	Disabled	1092	967.588	1092	967.588	1	Runtime

Counter A = Calibration Counter, LED 2 Counters C and D are Factory Use Only Counter B = Maintenance Counter, LED 3



Appendices

- **Runtime Calculator**
- Cycle Count Examples
- **End User License**

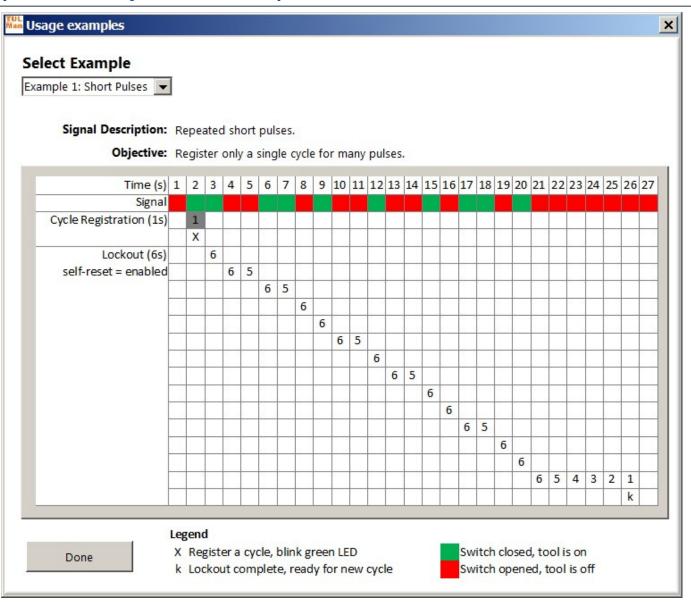
Agreement



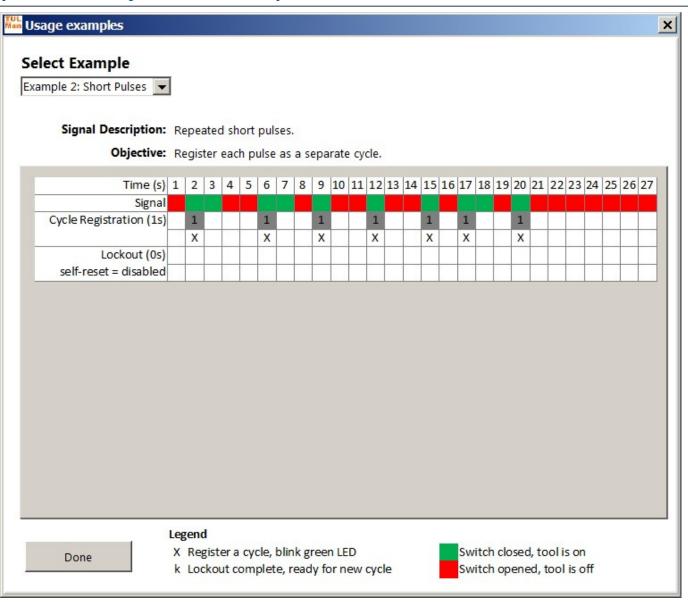


Цошко	Cocondo
Hours	Seconds
1	3600
8	28800
16	57600
24	86400
50	180000
100	360000
200	720000
300	1080000
500	1800000
1000	3600000

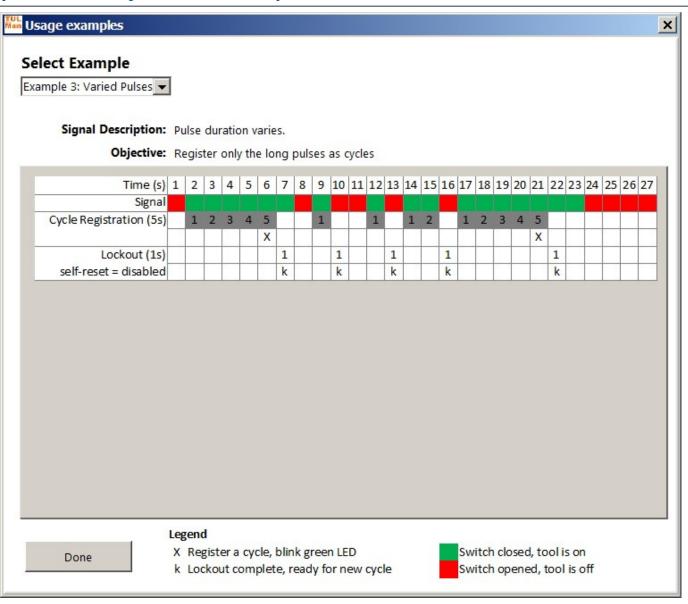




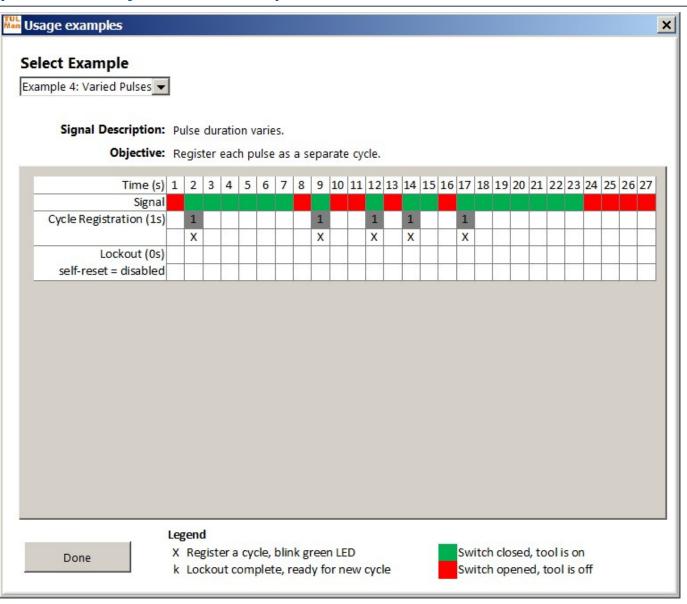




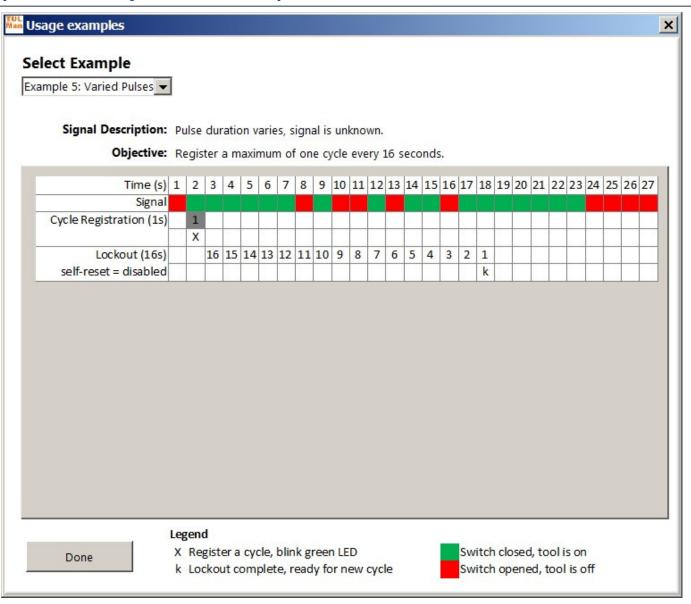












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