TachoTerminal

USER'S MANUAL
TACHOTERMINAL PRO1
TACHOTERMINAL PRO2

In the Box

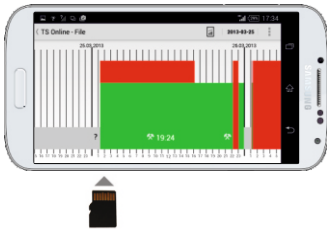**miniUSB-USB cable**
(1.8 metres)

2GB removable memory card
(in the slot)

TTConfigurator
(pre-installed in TERMINAL folder)

Optional Accessories

TS Online
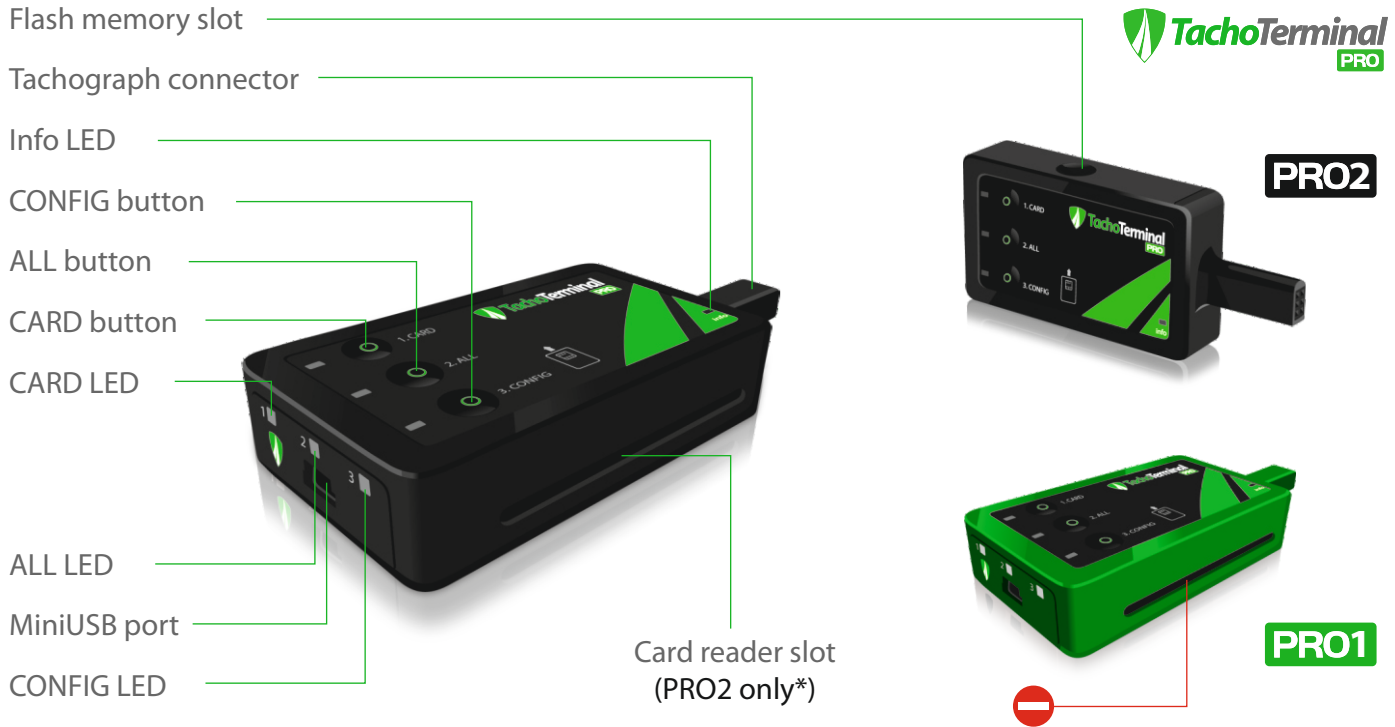App for Android smartphones

Tachospeed program DEMO
(optional download from
www. tachospeed.pl/demo)

WARNING!

At least once a month, the device should be fully charged by connecting it to a computer for approx. 3 hours. When the device is not used for a long time, it should be stored with the battery fully charged.

*presented with Samsung Galaxy

Flash memory slot

Tachograph connector

Info LED

CONFIG button

ALL button

CARD button

CARD LED

ALL LED

MiniUSB port

CONFIG LED

Card reader slot
(PRO2 only*)

PRO2

PRO1

*) Card reader slot in PRO1 version is INACTIVE.
In order to download card data, insert the card in the tachograph, switch on the reader using the CARD button, and select the appropriate download option (more information on data download on pages 6, 7 and 8). To update the device to PRO2 version, activating the driver card reader, contact the manufacturer or the distributor. More information at www.tachoterminal.net

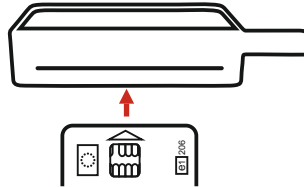# Download via in-built Card Reader (exclusively for PRO2!)

Pic. A

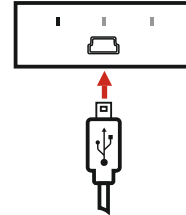While reading the card, TachoTerminal PRO2 is supplied by the PC or by the in-built battery

TachoTerminal PRO

- CARD
- ALL
- CONFIG

Info LED
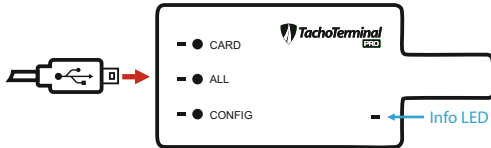
Pic. B

I. Press CARD to start PRO2 Reader
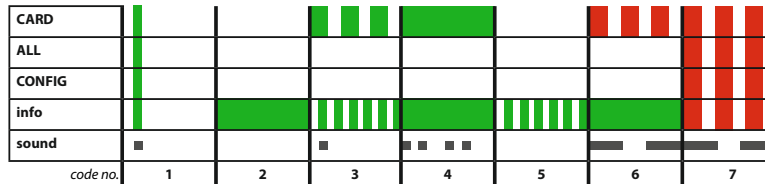
II. Insert Driver Card

Pic. C

III. Connect the reader to PC with miniUSB cable and copy the memory card files.
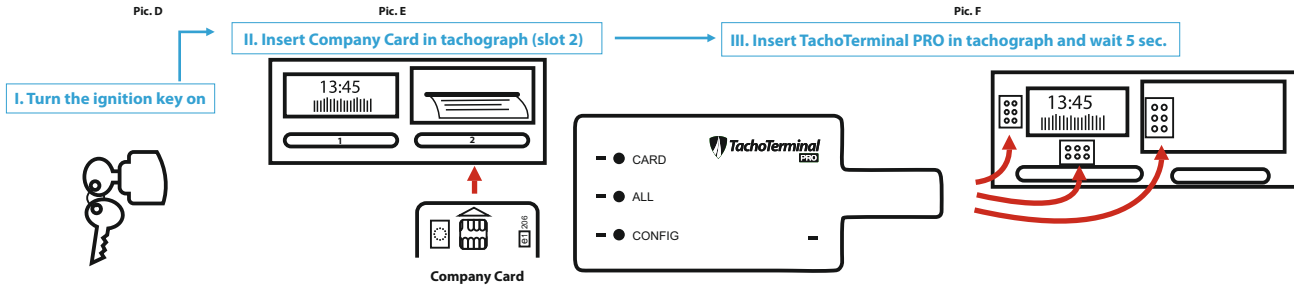
Common LED and Sound Codes while Driver Card is being read

CARD							
ALL							
CONFIG							
info							
sound							
code no.	1	2	3	4	5	6	7

MESSAGE OR ERROR TYPE	COMMENTS
1. TachoTerminal PRO properly connected to power supply via PC USB, tachograph, car charger or socket charger.	*When powered do not eject the Flash card. It should be ejected and inserted with the power off.*
2. Device ready - powered properly	*To read the driver card, insert it in the slot with the smart chip facing up.*
3. Driver Card download via in-built reader	*Do not eject the card and do not power the device off while reading.**
4. Driver Card download succeeded	*'C_Name_Surname_Date_Hour' file is saved in CARD folder of the Flash card.*
5. Copying Flash card memory data to PC via USB cable	*Do not use the Flash memory card to store other files.*
6. ERROR: card unknown, inserted incorrectly, ejected too soon or the download takes too long	*Re-insert the driver card with the smart chip facing up as shown in Pic. A and Pic. C.*
7. ERROR: no memory card, incorrect format, less than 500 kB storage space left	*Insert a properly formatted (FAT 16) memory card in TachoTerminal PRO slot.*

* if the device is powered off or the card is ejected too soon, the Flash card may get damaged

Pic. D

Pic. E

II. Insert Company Card in tachograph (slot 2)

Pic. F

III. Insert TachoTerminal PRO in tachograph and wait 5 sec.

I. Turn the ignition key on

13:45

1 2

CARD

ALL

CONFIG

TachoTerminal PRO

Company Card

13:45

Common LED and Sound Codes while Tachograph is being read - Default mode

code no.	8	9	10	11	12	13	14	15	16
CARD									
ALL									
CONFIG									
info									
sound									

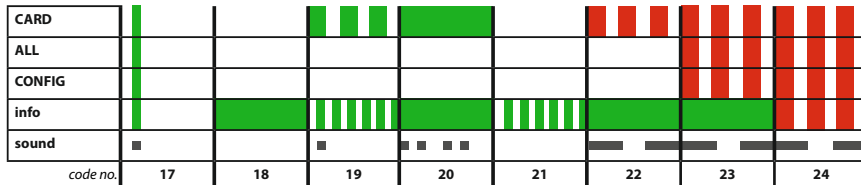| MESSAGE OR ERROR TYPE	COMMENTS
8. TachoTerminal PRO connected to tachograph properly	*Before you connect the device, remember to turn the ignition key on and to insert company and driver cards in tachograph slots.*
9. Device ready - powered properly	*Wait 5 seconds before you start downloading. Do not eject the Flash card.*
10. Tachograph download	*Do not eject the device from the tachograph, and do not turn the ignition key off. **
11. Tachograph download succeeded	*'M_Vehicle_Date_Hour' file is saved in TACHO folder of the Flash card.*
12. Tachograph download succeeded with **speeding events**	*Vehicle speed analysis indicates speeding over 90 kph.*
13. Copying Flash card memory data to PC via USB cable	*Eject the TT PRO from the tachograph and connect it to your PC to copy the files.*
14. ERROR: tachograph download failed	*Change the reader configuration and re-download data.*
15. ERROR: data download failed - no company card	*Re-insert the company card in slot 2 - as shown in Pic. E.*
16. ERROR: no Flash card, incorrect format, less than 500 kB storage space left	*Insert a properly formatted (FAT 16) memory card in TachoTerminal PRO slot.*

* ejecting the reader from the tachograph too soon may damage the Flash card

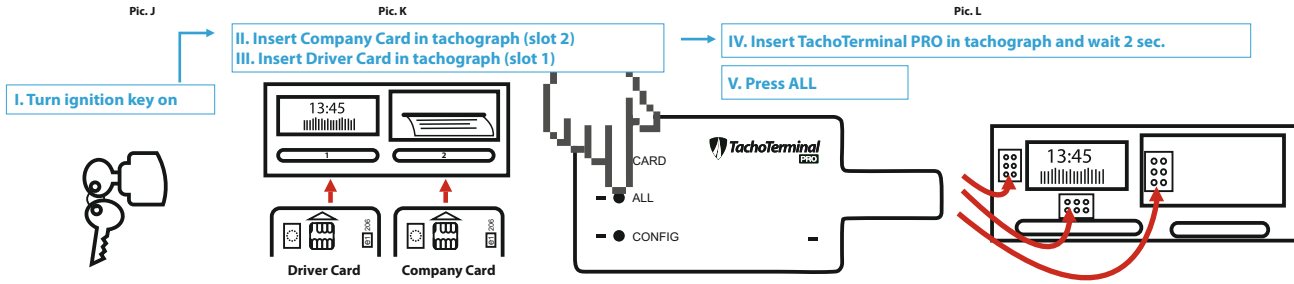# Driver Card Data Download via Tachograph (CARD mode) - PRO1/PRO2

Pic. G

Pic. H

Pic. I

I. Turn ignition key on

II. Insert Company Card in tachograph (slot 2)
III. Insert Driver Card in tachograph (slot 1)

IV. Insert TachoTerminal PRO in tachograph and wait 2 sec.

V. Press CARD

13:45

1   2

Driver Card   Company Card

CARD
ALL
CONFIG

TachoTerminal PRO

13:45
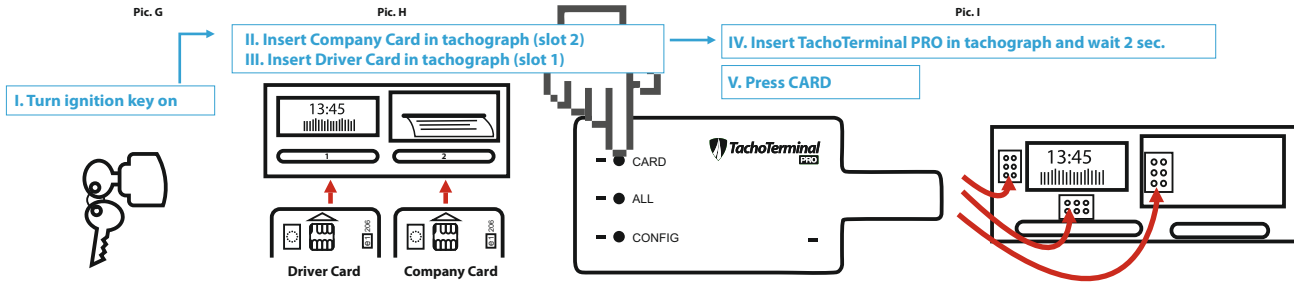
Common LED and Sound Codes while Driver Card is being read via Tachograph

|								
CARD								
ALL								
CONFIG								
info								
sound								
code no.	**17**	**18**	**19**	**20**	**21**	**22**	**23**	**24**

MESSAGE OR ERROR TYPE	COMMENTS
17. TachoTerminal PRO connected properly	*Before you connect the device, remember to turn the ignition key on and to insert company and driver cards in tachograph slots.*
18. Device ready – properly powered	*To read the driver card, press CARD.*
19. Driver card download via tachograph	*Do not eject the device from the tachograph, and do not turn the ignition key off. ***
20. Driver card download succeeded	*'C_Name_Surname_Date_Hour' file is saved in TACHO folder of the Flash card.*
21. Copying Flash card memory data to PC via USB cable	*Eject the TT PRO from the tachograph and connect it to your PC to copy the files.*
22. ERROR: no driver card or card inserted incorrectly	*Re-insert the driver card in the tachograph with the smart chip facing up (slot 1) - Pic. H.*
23. ERROR: data download failed - no company card	*Re-insert the company card in slot 2 - as shown in Pic. H.*
24. ERROR: no Flash card, incorrect format, less than 500 kB storage space left	*Insert a properly formatted (FAT 16) memory card in TachoTerminal PRO slot.*

* ejecting the reader from the tachograph too soon may damage the Flash card

Driver Card Data Download via Tachograph (ALL mode) - PRO1/PRO2

Pic. J

Pic. K

II. Insert Company Card in tachograph (slot 2)
III. Insert Driver Card in tachograph (slot 1)

Pic. L

IV. Insert TachoTerminal PRO in tachograph and wait 2 sec.

I. Turn ignition key on

V. Press ALL

13:45

1   2

CARD

ALL

CONFIG

TachoTerminal PRO

Driver Card   Company Card

13:45

Common LED and Sound Codes while Tachograph is being read - ALL mode

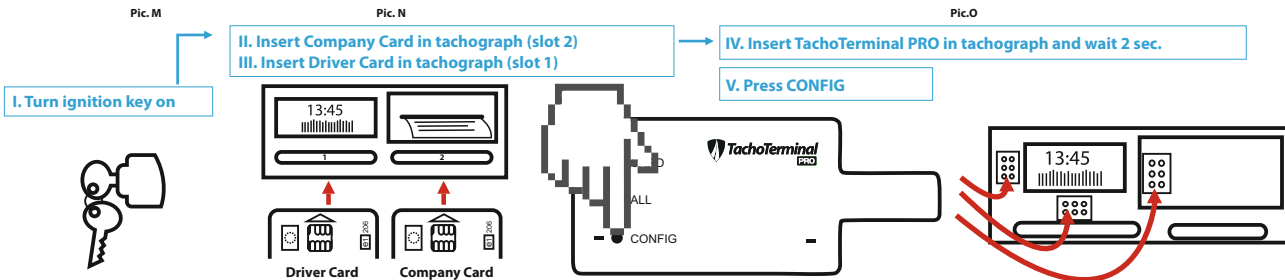|									
CARD									
ALL									
CONFIG									
info									
sound									
code no.	25	26	27	28	29	30	31	32	33
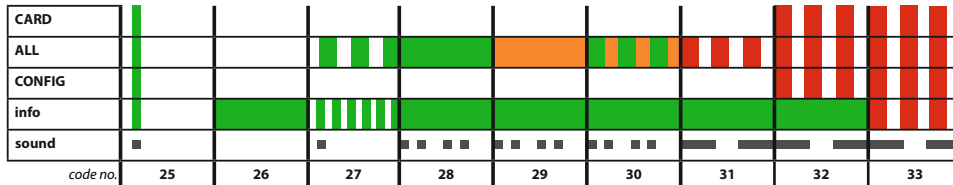
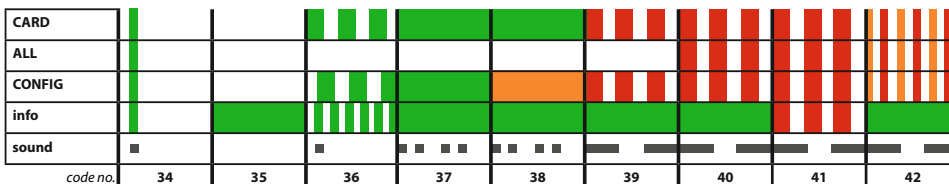| MESSAGE OR ERROR TYPE	COMMENTS
25. TachoTerminal PRO connected to tachograph properly	*Before you connect the device, remember to turn the ignition key on and to insert company and driver cards in tachograph slots.*
26. Device ready – properly powered	*To read ALL mode, press ALL.**
27. Tachograph download	*Do not eject the device from the tachograph, and do not turn the ignition key off.*
28. Tachograph download succeeded	*'M_Vehicle_Date_Hour' file is saved in TACHO folder of the Flash card.*
29. Tachograph download succeeded with **speeding events**	*Vehicle speed analysis indicates speeding over 90 kph.*
30. Tachograph download with no drivers' activities	*No drivers' activities in the requested period.*
31. **ERROR:** tachograph download failed	*Change the reader configuration and re-download data.*
32. **ERROR:** data download failed - no company card	*Re-insert the company card in slot 2 - as shown in Pic. K.*
33. **ERROR:** no Flash card, incorrect format, less than 500 kB storage space left**	*Copy and then delete files from memory card or change the Flash card.*

*ALL button downloads activities for the previous 365 days - configuration can be changed if needed
**see page 10 for other errors

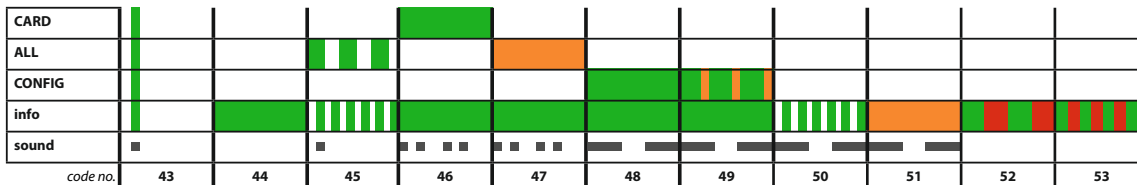# Driver Card Data Download via Tachograph (CONFIG+CARD modes) - PRO1/PRO2

Pic. M

Pic. N

Pic.O

I. Turn ignition key on

II. Insert Company Card in tachograph (slot 2)
III. Insert Driver Card in tachograph (slot 1)

IV. Insert TachoTerminal PRO in tachograph and wait 2 sec.

V. Press CONFIG

13:45

Driver Card   Company Card

TachoTerminal PRO

ALL
CONFIG

13:45

Common LED and Sound Codes while Tachograph is being read - ALL mode

code no.	34	35	36	37	38	39	40	41	42
CARD									
ALL									
CONFIG									
info									
sound									

MESSAGE OR ERROR TYPE	COMMENTS
34. TachoTerminal PRO connected to tachograph properly	*Before you connect the device, remember to turn the ignition key on and insert company and driver cards in tachograph slots.*
35. Device ready - powered properly	*To read CONFIG+CARD mode, press CONFIG.*
36. Tachograph download	*Do not eject the device from the tachograph, and do not turn the ignition key off.*
37. Tachograph download succeeded	*'M_Vehicle_Date_Hour' file is saved in TACHO folder of the Flash card, and the driver card file is saved as 'C_Name_Surname_Date_Hour' in CARD folder*
38. Tachograph and driver card download succeeded with **speeding events**	*Eject the TT PRO from the tachograph and connect it to your PC to copy the files.*
39. ERROR: data download failed	*Change the reader configuration and re-download data.*
40. ERROR: data download failed - no company card	*Re-insert the company card in slot 2 - as shown in Pic. N.*
41. ERROR: no Flash card, incorrect format, less than 500 kB storage space left	*Insert a properly formatted (FAT 16) memory card in TachoTerminal PRO slot.*
42. ERROR: unsupported function, tachograph access denied, query beyond range*	*Change the configuration and re-download data - see page 11.*

8

*see page 10 for other errors

	code no.	43	44	45	46	47	48	49	50	51	52	53
CARD												
ALL												
CONFIG												
info												
sound												

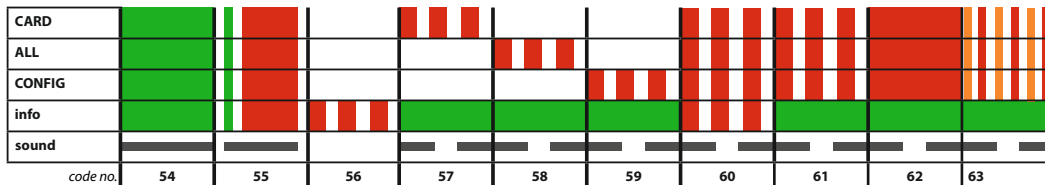| MESSAGE OR ERROR TYPE	COMMENTS
43. TachoTerminal PRO properly connected to power supply via PC USB, tachograph, car charger or socket charger.	*The device requires a stable voltage, so use the recommended USB cable while connecting to a PC.*
44. Device ready - powered properly	*When the device is powered on, do not eject the Flash card.**
45. Tachograph download in ALL mode	*Do not eject cards and the device from the tachograph**, and do not turn the ignition key off.*
46. Driver card download in ALL mode succeeded	*The driver card file is saved as 'C_Name_Surname_Date_Hour' in CARD folder*
47. Tachograph download in ALL mode succeeded with **speeding events**	*Eject the TT PRO from the tachograph and connect it to your PC to copy 'M_Vehicle_Date_Hour' files from TERMINAL folder.*
48. Tachograph download in CONFIG mode succeeded	*'M_Vehicle_Date_Hour' file contains tachograph dowload data.*
49. File download succeeded with no drivers' activities	*Select period, change the configuration or press another button to download drivers' activities.*
50. Copying and saving data on Flash memory card	*Do not disconnect the reader until the process is finished.****
51. Real-time clock battery rundown	*Driver card files may have 2000-01-01 download date. Send the reader to the authorized workshop to change the battery.*
51. Awaiting reader update mode	*Connect the reader to your PC and press CONFIG for 10 sec.*
52. Reader update mode on	*Run LemkeLink to start the reader firmware update.*
53. Reader update in progress	*Do not disconnect the reader until the process is finished.*****

*while the reader is processing the data, do not eject the Flash card, this may damage the card
**ejecting the reader from the tachograph while data is being downloaded and saved may damage the Flash card
***disconnecting the USB cable or turning the computer power off may damage the Flash card.
****disconnecting the USB cable during reader update may cause reader damage or malfunction

	code no.	54	55	56	57	58	59	60	61	62	63
CARD											
ALL											
CONFIG											
info											
sound											

MESSAGE OR ERROR TYPE	COMMENTS
54. Incorrect reader start-up	*Re-connect the reader. Insert the reader in the tachograph.*
55. Incorrect reader configuration – no device ID	*Return the reader to your provider, distributor or producer in order to replace it.*
56. Incorrect power supply – low voltage	*Replace the USB cable for the one recommended by the producer.**
57. Driver card download failed	*No driver card in the tachograph. The card ejected too soon or inserted in TachoTerminal PRO incorrectly.*
58. Tachograph download in ALL mode failed	*Change the configuration and re-download data - see page 11.*
59. Tachograph download in Default or CONFIG mode failed	*Change the configuration and re-download data - see page 11.*
60. Flash card error - no Flash card, incorrect format or less than 500kB storage space left	*Replace the memory card with the one properly formatted in FAT 16 or delete .ddd and .esm files to increase the storage space.*
61. Tachograph communication error	*Insert company, workshop or control card.*
62. Tachograph not responding, download failed	*Change the configuration and re-download data - see page 11. Should the problem re-occur, contact your authorized service provider.*
63. Unsupported function, tachograph access denied, inappropriate query length, query beyond range	*Change the configuration and re-download data - see page 11. Should the problem re-occur, contact your authorized service provider.*

* To get the recommended USB cable visit www.tachoterminal.net
* To get the recommended memory cards visit www.tachoterminal.net

TachoTerminal PRO Configuration

**Copy TTConfigurator from the TERMINAL folder to your PC and run TTConfigurator.exe**

Tick here to read data via the tachograph

Tick here to get information on speeding over 90 kph.

Download of the speed data takes the longest

CARD				
ALL				
CONFIG				
info				
sound				
code no.	64	65	66	
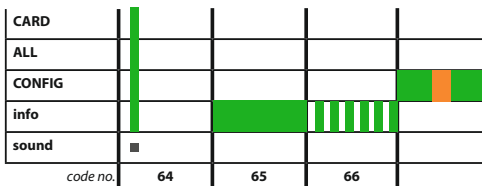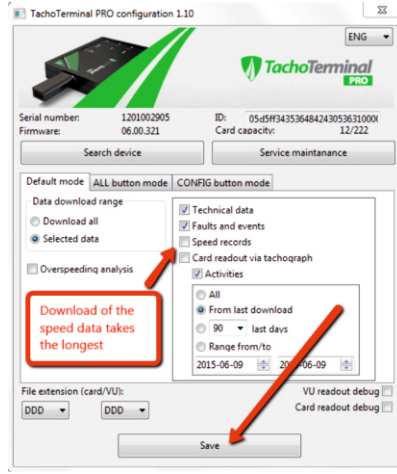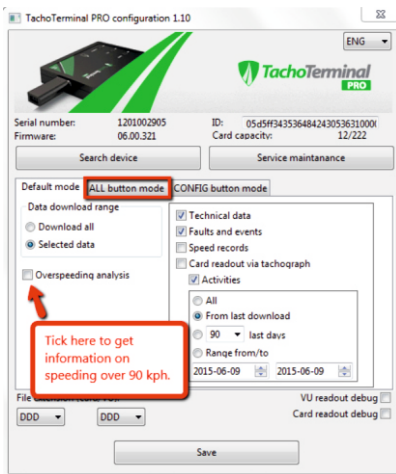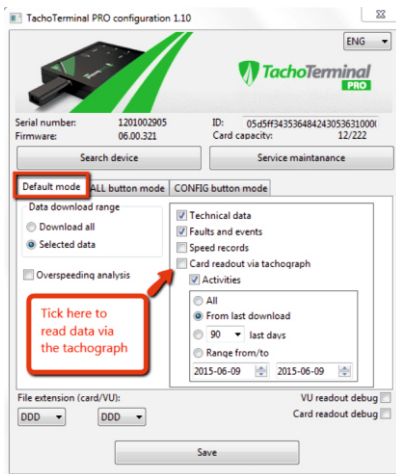
| MESSAGE OR ERROR TYPE	COMMENTS
64. TT PRO PC connection via the recommended USB cable	*Do not eject the Flash card.*
65. USB storage mode active	*Run TTConfigurator and find the device*
66. Saving configuration	*Select the configuration and press Save Configuration. Wait for 67 signal.*
67. Finishing configuration	*TT PRO real-time clock updates the date and time.*

I. Copy 'TachoTerminalPro.inf' Driver from TERMINAL\TTConfigurator\Update folder to an easily accessible location, e.g. desktop.
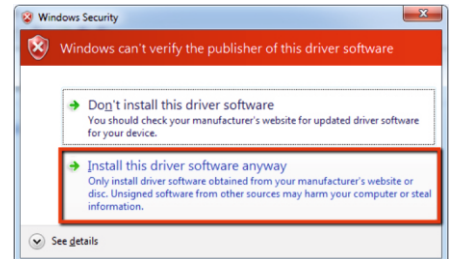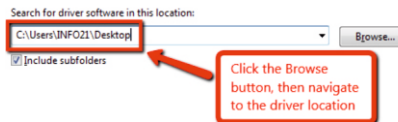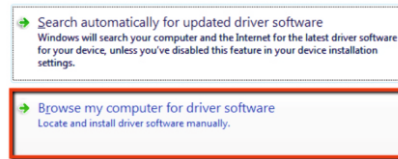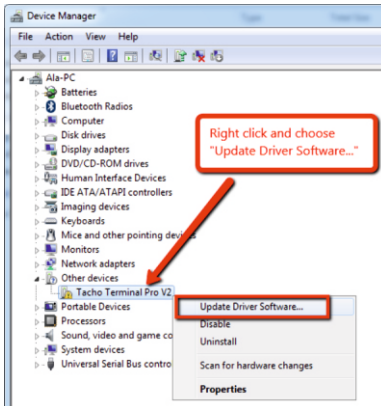
II. Press CONFIG
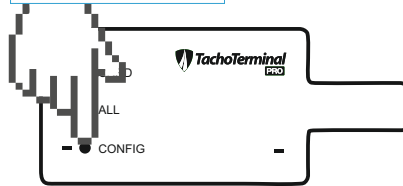
III. Connect Reader to PC holding CONFIG until Reader is detected by PC (10 sec.)

ALL
CONFIG

ALL
CONFIG
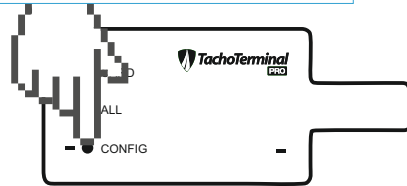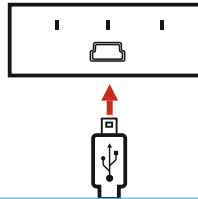
IV. If Reader Driver is not detected by the operating system, install TachoTerminalPro.inf Driver manually
**V. Go to Device Manager (Control Panel/System/Device Manager)**

Right click and choose "Update Driver Software…"

→ Search automatically for updated driver software
Windows will search your computer and the Internet for the latest driver software for your device, unless you've disabled this feature in your device installation settings.

→ Browse my computer for driver software
Locate and install driver software manually.

Browse for driver software on your computer

Search for driver software in this location:

C:\Users\INFO21\Desktop   Browse…

☑ Include subfolders

Click the Browse button, then navigate to the driver location

Windows can't verify the publisher of this driver software

→ Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.

→ Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.

See details

If the driver installation fails, contact the manufacturer.

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I. Start LemkeLink software
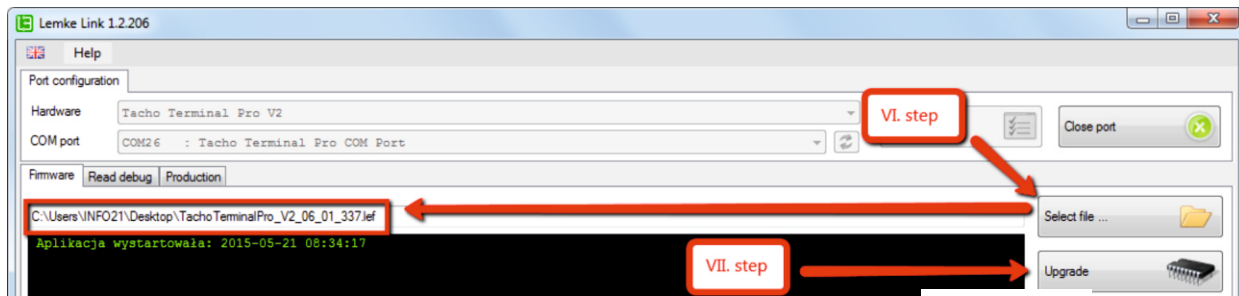**II. Select TachoTerminal Pro V2**

III. Click Refresh Port List

IV. Select TachoTerminal Pro COM Port
V. Click Open Port
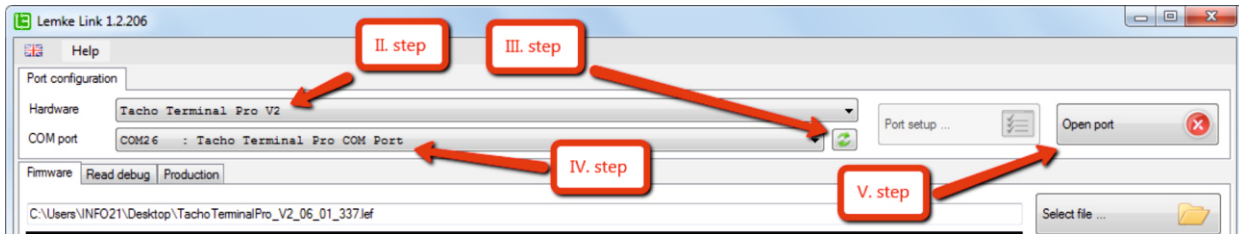
VI. Select the firmware update file

VII. Click Upgrade

VIII. Check update status in Bootloader tab

IX. Click Close port

If the installation of the software fails, contact the manufacturer

Reader Firmware Update – Part Three

Common LED and Sound Codes at Reader Firmware Update

CARD				
ALL				
CONFIG				
info				
sound				■
code no.	68	69	70	71

MESSAGE OR ERROR TYPE	COMMENTS
68. Starting update mode	*Press CONFIG for 10 sec while connecting the reader to a PC via miniUSB-USB cable.*
69. Device ready for update	*After 10 seconds release the CONFIG button and run LemkeLink application. Choose TachoTerminal Pro COM port and firmware update file and upload new firmware.*
70. Reader firmware update in progress	*At firmware update do not disconnect the USB cable or do not press any buttons.*
71. Finishing firmware update	*Check the update information in Bootloader tab.*

*disconnecting the USB cable at firmware update may cause the reader damage or malfunction

Warranty and terms

The product is covered by a 12-month warranty.

The warranty shall not apply if the failure, defect, or malfunction is due to natural wear or such causes as spilling a liquid, mechanical damage, overvoltage, lightning, etc. The manufacturer shall not be liable for defects caused by unauthorized interference with the product's design.

The MANUFACTURER shall consider and respond to the BUYER's complaint within 14 days. Should this deadline not be observed, the complaint shall be considered to the benefit of the BUYER. The product complained about shall be delivered in a package that protects it against damage.

The cost of transport of such a product shall be borne by the BUYER; if the complaint is accepted, the MANUFACTURER shall reimburse the cost of transport of the product to the BUYER by making a bank transfer to a bank account indicated by the BUYER. If the complaint concerns a larger number of products, they may be delivered in one shipment. The warranty shall be extended by the time of repair of the product complained about.

Shipments at the MANUFACTURER's cost shall not be accepted.

MANUFACTURER:
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