



PLARAD[®]
Torque & Tension Systems

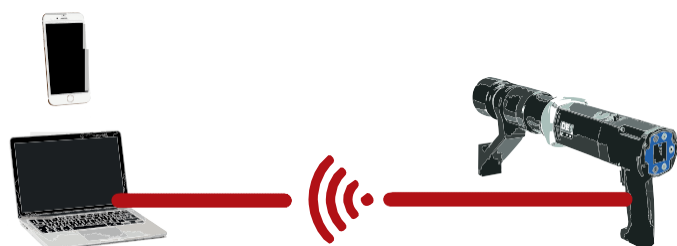


Quick Guide Nutrunner DE1 *docu*

Please note: This guide does not replace the original operating manual which must be read prior to using the tool.

General description

The DE1 *docu* can record and store up to 10 000 bolted joints including the faulty ones. The recorded bolting data is retrieved via a WLAN-capable hub and a web browser. The DE1 *docu* offers two possibilities:



1. Wireless Access Point (WAP)

The DE1 *docu* is equipped with WAP, this enables devices to connect with it. Access therefore is possible with every approved end device.



2. Wireless Network (WLAN)

The DE1 *docu* automatically connects with a WLAN-network. Therefore connection can occur with all approved devices.



Note:

Only one device can be connected to the DE1 *docu* at any one time, multiple device connections are impossible.



General note:

When using a WLAN network the virus scanner (Firewall) has to be so configured it will accept local IP-addresses.

In case of doubt please contact your IT administrator.








Notes:

Data transfer via WLAN during the tightening process is impossible.

Minimum recommended distance to the WLAN-Router -Hub/-or WLAN-repeater -devices, such as computer, laptop etc. should be $\leq 5\text{m}$.

Connection can take while, as the device makes several attempts successively.

Description of the WLAN-menu

To open the menu press the buttons  +  and navigate with the buttons  /  with the corresponding menu option. Confirm your selection with .



1st – 4th. line: this shows if the DE1 *docu* is connected with a WLAN network

- ‡ WLAN not con. Access point of the DE1 *docu* is active.
WAP active There is no connection with a WLAN network.
- ‡ WLAN connecting... Connection to a WLAN network is being established.
- ‡ WLAN connected WLAN connection is successful.
MUSTER_WLAN Name of the connected WLAN network is indicated.
MAC:60019428793A This refers to the MAC address of the DE1 *docu* (example).
192.168.10.191 This is the IP adress approved via DHCP (example).
- ‡ WLAN connect failed WLAN connect failed Connection failed. (switch the mains power supply on and off or switch WLAN on/off).

Docu No. shows how many data entries (one per bolted joint) have been recorded and stored, as well as the max. amount of free storage.











Network signal

Quality of the WLAN connection is indicated via the amount of blue bars on the display. Signal strength should be at least two bars. If not please look for another place with better signal strength. WAP mode is indicated with one dot.



System setup / password protected

The following functions can be set in the menu System Setup:

- ‡ Error ackn Switch on confirmation of error
After activation work may only continue if bolting operation is fault-free. In the event of a faulty bolting joint, this has first to be confirmed with  + .
- ‡ Docu on Switch on documentation
Every bolted joint is recorded when this option is enabled. This will be shown with Icon  in the upper screen bar.
- ‡ WLAN on Automatic WLAN network connection
When this point is activated, the nutrunner tries to automatically connect with the WLAN network. If inactive, the WLAN access point is automatically activated.
- ‡ Safe start Turn on safety start
When active, the nutrunner can only be turned on when the button combination  +  has been pressed. Please note! Press  and hold, then press . When both buttons have been pressed, the trigger on the pistolgrip handle has to be pressed within 5 seconds. Locking is indicated by  in the upper right corner. It is recommended, to switch the keylock on when using this function, to avoid unintentional adjustment of the settings.

Instruction for the direct connection of the DE1 *docu* (WAP) in the system setup

1. Turn off “WLAN on” in the system setup.
2. Turn on the WLAN at your Terminal device.
3. The DE1 *docu* appears at the terminal as a WLAN spot with its name and the serial number (“82XXXXX”), unless the name has been changed beforehand (setup changes through the webserver DE1 *docu*).
4. Dial and connect.
5. The factory-made password is “12345678”.
6. With a few mobile devices there’s a notification, that there is no internet connection available. Please confirm this notification so that the WLAN-connection can be maintained.
7. With your terminal device, please switch to the web browser (we recommend firefox or chrome).
8. Add IP address “192.168.4.1” in the address bar (unchangeable).
9. Now, the browser needs an authentication (cf. Figure 1).
10. The name of the authentication is always the serial number of the nutrunner (“82XXXXX”).
11. The password is either the master password or the user password of the nutrunner (standard “0000”).
12. The webserver of the DE1 *docu* starts.

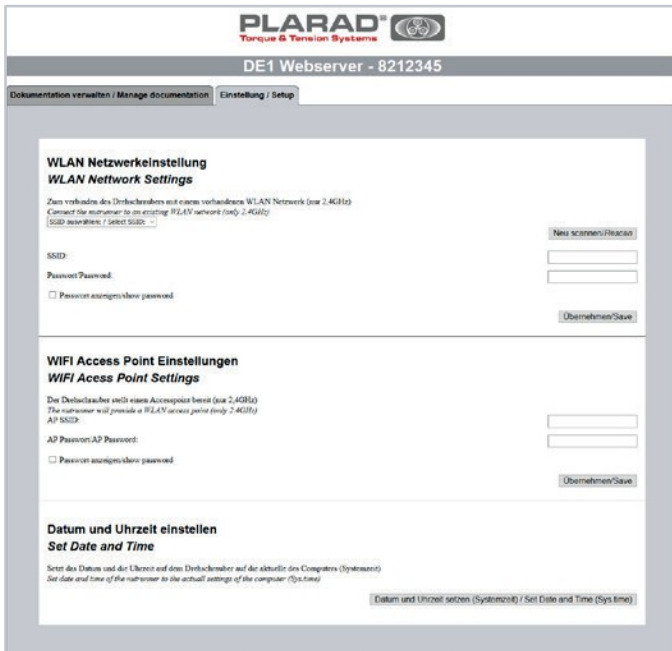


Figure 1

Instruction to connect with a WLAN network

1. Connect the DE1 *docu* with a terminal device via WAP (cf. "Instruction for direct connection").
2. Select the "setup"-tab (cf. Figure 2).
3. Authentication: Name, serial number, password: masterpassword (standard "0000").
4. Choose WLAN network or insert WLAN network name manually (SSID).
5. Insert and take over the WLAN password.
6. Unplug or disconnect the DE1 *docu* from the mains (remove the mains power supply and wait for 5 to 10 seconds or switch WLAN on/off).
7. Turn on the WLAN in the DE1 *docu* setup (cf. "Setup/WLAN on").
8. Check the connection status in the WLAN info-menu.
9. Write down the IP address.
10. Start a browser at your WLAN network terminal (we recommend firefox or chrome).
11. Insert the IP address in your address bar or insert "http://de1web-xxxxxxx.local".
12. Authentication as described at step 9 in WAP.

Description of the web interface

You can download the documentation file at your web interface device. The download can take a few minutes, depending to the size of the file.

Also you can adjust your WLAN settings „date and time“ via the „setup“ –tab (mandatory during the initial setup).

Time will be transferred from the device to the DE1 *docu*. Please update regularly.



Figure 2



Note:

When you're connected via WLAN you cannot set or edit any WLAN-settings. You can only configurate WAP. You can also connect to WPA2 secured connections (WPA is not supported) only.



Note:

When using the WLAN network, the virus scanner (Firewall) has to be configured to accept local IP-addresses. When in difficulty contact your IT administrator.



Note:

Deleting a documentation file can't be reversed.

Description of the table contents

Nutrunner information:	
DE1. Sno	Serial number of the DE <i>docu</i> , on which the data sets have been generated
Mot.No, Gear No	Serial number of the motor (drive unit) and the gear
DispSw, CuSw, WLANS	Software version number of the display, the control unit and the WLAN module
DtNo	Record number. One (per DE1 <i>docu</i>) unique number of the data sets

Bolting application information:	
ID	Consecutive number of the data sets, one per executed bolting
Date	Date of bolting
Time	Time of bolting
Mode	Bolting mode
Set / Snug Torque	Set torque (in torque mode) (120 -> loosening mode) Pre torque (Torque/torque angle mode)
Max. Torque	Maximum torque permitted during torque angle process
Set Angle	Set angle
Actual Angle	Actual value of the angle
State	State of the bolting

Coding of the mode information:		
Mode	0	Torque mode
	1	Anglemode
	2	Torque/Torque angle mode
	3	Rotation angel counting mode
	4	Test mode – verification of torque tightness

Coding of the State information:		
State	OK	Bolting process OK
	Err 1	User abort
	Err 2	Mains voltage too low
	Err 3	Genreal error mains voltage
	Err 4	Motor still turns at start startup
	Err 5	Motortemperature is too high
	Err 6	Cancelledstart (time out)

Troubleshooting

Error:	Removal of the fault:
On terminal device, the nutrunner is not shown as WAP.	Please check if the WLAN function is switched off at the nutrunner (WAP is only active when WLAN is turned off).
The nutrunner doesn't connect to the WLAN network.	Please check the field strength of the router . If there isn't any blue bar at the WLAN symbol, the signal strength is too low. Please reduce the distance between the router and the nutrunner. Please check if SSID and password have been entered correctly.
WAP doesn't connect	Please deactivate or delete all connected devices. Multiple connections are not possible.
The display of the imported CSV data is incomplete	Please activate the semicolon (;) as separating character in your spreadsheet software import settings.

Technical data	
Safety standard:	WPA2
Frequency range:	2,4 GHz
WLAN standard:	IEEE 802.11b/g/n
Coverage:	Max. 30 m in open spaces, max. 15 m within buildings
Encryption standard:	AES
Network protocol:	IPv4, TCP/ http
Communication protocol:	DHCP
Temperature range:	-20°C to 60°C (Docu-modul, only read-out)