



lineScale 3

PPE Certified (CE and UIAA)
 Electronic Bluetooth Load Cell

Quick Start Guide

QSG ver. 1.1

This quick guide will get you started with the basic, most frequent operating functions.
Please refer to the overleaf instructions for MENU operation and personal setup.
You will find a detailed users manual, FAQs, and knowledge-base on www.linegrip.com/LS3



Short press to switch on / off.

Long press (when powered on) to enter the settings and configuration menu.

- Log settings
- Date & Time settings
- User settings
- Service Menu (Operate carefully in this menu! Wrong settings can render the LS3 inoperative!)



Short press to toggle the scan rate.

- 10Hz (100ms)
- 40Hz (25ms)
- 640Hz (1.5ms)
- 1280Hz (0,75ms)

Note: BT connection to smartphone app is possible with 10Hz and 40Hz setting only.

Long press to start onboard logging with the settings defined in the „LOG“ Menu.

In the „User Settings“ you may activate the „Auto Power Off“ function, which is disabled by default. This will power off the LS3 automatically after a specified amount of time has passed since the last button press or load change was registered. The „Display Power Off“ function is set to 5 minutes by default because it will not affect or interrupt onboard logging or BT connection. When the display is blanked the LS3 will run about 4 times longer on a single battery charge. Please refer to the online knowledge base or the downloadable PDF user manual for detailed operating instructions and LOG function explanation.



Short press press to toggle display units.

- kN (kilonewton)
- lbf (pounds force)
- kgf (kilograms force)

Long press to toggle PEAK mode. The display will freeze at the highest value reached since the PEAK mode was activated.



Short press to set relative zero at the current load value (will work in REL mode only).

Long press to toggle REL(ative) / ABS(olute) mode. REL mode will show load value relative to the current set relative zero. ABS mode will always show the true / real load value relative to the calibrated absolute zero.

NOTICE FOR PPE APPLICATION

Please fully read and understand the included PPE manual before using the LineScale-3 for PPE application!

Technical Specifications

- Working load limit (WLL): 30 kN (6700 lbf)
- Minimum breaking strength (MBS): 90 kN (22000 lbf)
- Recommended PPE max. load: 10 kN (2200 lbf)
- Max. measuring range: -10 % to 110 % of WLL
- Sensor scan rate (cycle rate): 1280Hz, 640Hz, 40 Hz, 10Hz
- Weight (incl. battery): 520 g (18.3 oz)
- Measurements (L x W x T): 190 x 90 x 20 mm
- Material body: High strain aviation aluminum alloy LY12CZ
- Display units: kgf / lbf / kN
- Display division (resolution): 1 kg / 2 lbf / 0.01 kN
- Measure error: less than ±0.5% (@3kN-15kN)
- Operating temperature: -10 to +40 °C
- Storage temperature: -20 to +70 °C
- Relative humidity: 10% to 80% RH
- Power: 3.7V 1400mAh rechargeable Li-Ion battery pack
- Operating endurance: ca. 50 hours continuous (24h w. bluetooth enabled)
- Bluetooth 4/5 interface (w. smartphone app)
- Protection Class: IP65 (splash & rain proof, **do NOT submerge in water!!!**)



Your devices Bluetooth MAC-Address is engraved above the display. This is used for unit identification in the smartphone app when multiple units are in Bluetooth reach, and it is also the serial number of your unit.

lineGrip Corporation Ltd.
 Hauptstrasse 41
 67714 Waldfishbach
 Germany

Contact: Mr. Andy Riedrich
 Phone: +49 6333 603 00 22
 Mobile: +49 170 996 91 92
info@linegrip.com
www.linegrip.com

Scan QR-code for detailed users manual, App download, FAQs, and knowledge-base



When in Main-Menu, the top most row will display the date, firmware version, and time.

01.10.21 V1.827 16:45

| Main Menu | Sub Menu <i>(w. sample setting)</i> | Item <i>(possible settings)</i> |
|---|--|---|
| Log | Clear log memory NO | Sure delete all logs? NO YES |
| | Onboard memory log ON | Onboard memory log ON OFF |
| | Overwrite oldest log ON | Overwrite oldest log ON OFF |
| | Capture start trigger 1.00 kN | Set start trigger x.xx 00000 for none |
| | Capture end trigger 12.00 kN | Set end trigger x.xx 00000 for none |
| | Max log length 180 sec. | Set max log length xxxxx |
| | Pre-capture rec. time 10 sec. | Pre-capture recording xxxxx 00000 for none |
| | Return | |
| Date/Time | Date format | Date format dd.mm.yy yy/mm/dd |
| | Date 01.10.21 | Set date xx.xx.xx |
| | Time 16:45:00 | Set time xx.xx.xx |
| | Return | |
| User Settings | Auto power off 5 min. | Set auto power off Off, 1, 3, 5, 10, 20, 30, 60 |
| | Set display power off 300 sec. | Set display power off Off, 10, 30, 60, 100, 200, 300, 600 |
| | Auto zero tracking 1 div. | Set zero tracking Off, 0.5, 1, 2, 3, 5, 10 NONE |
| | Return | |
| Service WARNING Operate carefully in this menu! Wrong settings can render the LS3 inoperative! Please note: There is NO factory reset option! If the calibration parameters are altered to invalid values the LS3 will no longer show accurate loads. A professional calibration will be necessary. | Set absolute zero | Cal. abs. zero now? NO YES |
| | Simple calibration | Start simple cal now? NO YES |
| | Linear calibration | Start linear cal now? NO YES |
| | Calibrate acceler. 9.792 N/kg | Set cal. accel. x.xxxx |
| | User acceleration 9.807 N/kg | Set user accel. x.xxx |
| | Battery voltage 3.985 V | No setting, value for information only. |
| | AD internal code 3513 | No setting, value for information only. |
| | Bluetooth MAC addr. F0:F8:F2:6A:D1:25 | No setting, value for information only. |
| | Return | |
| Exit | | |

Buttons function for navigation and setting

When enter item, NO is highlighted, press ← to return without deleting. Select ▼ YES and press ← to clear log memory and return to Sub-Menu

When enter item, current setting is highlighted
Select ▲▼ ON or OFF
press ← to set and return to Sub-Menu

When enter item, current setting is highlighted
Select ▲▼ ON or OFF
press ← to set and return to Sub-Menu

When enter Item "value" is highlighted

press ← to set value
first digit is highlighted
change digit with ▲▼ and ← to set
next digit is highlighted
change digit with ▲▼ and ← to set
repeat same for all digits
on last digit
press ← to set value and return to Sub-Menu

Enter 000 for no triggers or recording
press ← to set and return to Sub-Menu

Press ← to exit Sub-Menu, and return to Main-Menu

Same button function as set value

Same button function as set value

Same button function as set value

Press ← to exit Sub-Menu, and return to Main-Menu

Same button function as select value

Same button function as select value

Same button function as select value

Press ← to exit Sub-Menu, and return to Main-Menu

When enter item, NO is highlighted, press ← to return
Select ▼ YES
press ← to cal abs. 0 and return to Sub-Menu

When enter item, NO is highlighted, press ← to return
Select ▼ YES
press ← to start simple 2-point calibration

When enter item, NO is highlighted, press ← to return
Select ▼ YES
press ← to start linear 3-point calibration

Same button function as set value

Same button function as set value

Note:

Press the MENU button at any time during item setting to abort setting operation and exit to the SUB-Menu without saving any changes to the current item ;-)

Press ← to exit Sub-Menu, and return to Main-Menu

Press ← to exit menu, and return to display screen