

Operating instructions – Kruger Load link or Load shackle & display unit

About this manual

The grey boxes and square brackets refer to the LCD indication on the display unit, ie. **[0.00]** tells you that the display shows "0.00". The other brackets "{ }" tell you that a button on the display unit must be pressed. In case of any doubt, please contact your local agent, Contact details on page 2 of this manual.

Before you start

Check if the cabled load measuring system is complete. A complete set contains:

- One tension load cell (either a link with 2 shackles, or a single load measuring shackle)
- One battery powered display readout unit
- One cable connection, 10-20 meter
- Battery charger / power adapter (for accus)
- Calibration certificate
- Operating instructions (User's Manual)

Make sure the load link is used with perfect fitting shackles at both sides, to achieve the best accuracy.

The KRÜGER load-indication unit is designed for larger loads. The accuracy of the system is 1% of the maximum S.W.L., e.a. the discrepancy of for example a 10 ton load cell is maximum 1% of 10 ton or 0.1 ton over the full range.

Setting up the system

Plug the female connector of the connection cable into the load cell and turn the swivel lock on this connector hand-tight. Plug the other male connector of the cable in the same way into the receptacle marked "LOAD SENSOR", positioned on the read-out panel. Hook up the load cell by means of the supplied bow shackles the object and the pulling parts.

Note: In case of a load link always use the correct shackles, which are supplied along with the load cell; only in this case the accuracy can be guaranteed.

Note: In case of a load shackle make sure that the unit is used perfectly aligned with the load direction.

Normal operation

Push the button, marked {ON} and release. On the display figures will show now, the system is now activated. Check that the load cell is totally unloaded and set the readout to **[0.00]** by means of the turn knob {-0-}.

Now the load cell can be loaded; on the display the applied load will be indicated. After approx 2 minutes the indication unit will switch itself off automatically, this to avoid unnecessary discharge of the battery pack.

To energize the unit again, push the "ON"-button and release. If you hold the "ON"-button pushed down, the display will be illuminated. This feature is built-in for operating the in dark areas or at night.

Note: In some cases it is requires that the display may NOT switch off to save energy, Please contact your local agent in this case.

Taring

With this unit it is possible to tare off the weight of slings, chains, lifting beams etc. Switch on the unit as described above. Now load the load cell with the weight of the lifting gear, and turn the knob {-0-} until the display reads **[0.00]**.

You can now continue loading the load cell. However, bear in mind that the display now indicates a nett. load, which excludes the weight of the lifting gear.

To indicate the difference between gross and nett. load, a reference button has been built-in. When the {REF} button is pressed, the display will indicate the tare load.

By means of the {REF} button it is also possible to set the display zero with a load cell. To do this proceed as follows:

Energize (switch on) the read-out unit. Push the {REF} button and hold it in. Now adjust the readout by means of the turn knob -0- till the display reads 00.0.

Release the {REF} button. The unit is now reset to zero and an initially set tare adjustment has been cancelled.

The read-out unit on the display now shows a load, which includes, all slings, lifting beam(s) etc.

Empty Battery

When the battery is discharged too far the unit switches itself off.

To operate the unit, push the {ON} button. The unit will now switch on and 'LO-BATT' is visible on the display. However, when the "ON"-button is released the unit switches itself off.

With this system, it is also possible (independent of battery condition) to operate it by means of charge-unit. Handle as described here below.

Note: *When the battery is completely discharged (the unit immediately switches off when the {ON} button has been released) the shown load may be incorrect!*

Recharging the Battery

Connect the charge-unit by means of the 4-pin (female) connector to the receptacle on the rear of the display panel marked "Aux power and recharge or aux battery". Plug the charger into the wall outlet (230 VAC / 50Hz).

When the battery is fully charged the charge unit will switch itself off automatically. The LED will glow vaguely, indicating the display unit is still connected. Recharging time is approximately 5 hours when the battery has been discharged till 'LO-BATT' indicates in the display.

Caution: *Only charge the battery pack with the KRÜGER charging unit. Never discharge the accu too far.*

A too far discharged battery cannot be recharged to its full capacity anymore and replacement could be necessary. When the unit is not being used, the battery will slowly discharge itself. We therefore advice to keep the unit under charge when it's not used. The charge-unit will switch itself off when battery is full, and on again when it is discharged.



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