Claims

1. Arrangement consisting of a controller (1) arranged or to be arranged on a hydraulic lifting device and a mobile control module (2) via which the controller (1) can be remote-controlled, wherein it is possible to feed sensor data to the controller (1) via signal inputs (6, 7) and a processor (8) of the controller (1) is formed to calculate, from these sensor data and from stored data specific to the lifting device, information which is characteristic of the current lifting load situation and/or the allowability of work processes on the lifting device – optionally in the given current lifting load situation – characterized in that
   the controller (1) has a mode in which it transmits to the mobile control module (2), via a transmitting and receiving module (4), the information which is characteristic of the current lifting load situation and/or the allowability of work processes on the lifting device – optionally in the given current lifting load situation – wirelessly (10) and/or via cables (11) to a transmitting and receiving module (5) of the mobile control module (2), and in that a processor (9) of the mobile control module (2) calculates from this information graph data for a display which can be displayed to a user via a display unit (3), wherein the display comprises information on the present overload and/or cut-off values for the lifting device in the form of a polygonal chain (K), wherein the polygonal chain (K) represents the nominally maximum allowable capacity utilization of the lifting device.

2. Arrangement according to claim 1, wherein the mobile control module (2) has activation facilities (28) for activating the calculation and/or the display, which can be operated by a user.

3. Arrangement according to at least one of claims 1 or 2, wherein the mobile control module (2) has an energy storage (29) and the calculation and/or the display can only be effected in a minimum charge state of the energy storage (29).

4. Arrangement according to at least one of the preceding claims, wherein the characteristic information is transmitted incrementally.

5. Arrangement according to at least one of the preceding claims, wherein the controller (1) has a further mode, in which it transmits the characteristic information depending on the rate of change of the sensor data.

6. Arrangement according to claim 5, wherein when the change in the sensor data is slow the transmission of the characteristic information is effected with a reduced data rate.

7. Arrangement according to at least one of the preceding claims, wherein, before the transmission of the characteristic information, a data compression is effected in the controller (1).

8. Arrangement according to at least one of the preceding claims, wherein the transmission of the characteristic information is effected in the event of a change - preferably only in the event of a change - in the supporting situation of the lifting device and/or the location of the centre of gravity of the lifting device.

9. Arrangement according to claim 8, wherein the change in the supporting situation of the lifting device and/or the location of the centre of gravity is effected through a change in the size or position of a payload raised by the lifting device and/or through a change in the size or position of a ballast weight (30) that can be arranged on the lifting device.

10. Arrangement according to at least one of the preceding claims, wherein the display comprises an indication of the present capacity utilization of the lifting device in a Cartesian coordinate system or a polar coordinate system.

11. Arrangement according to at least one of the preceding claims, wherein the display comprises an indication of the present capacity utilization of the lifting device in the form of a point (P), a line (L) or another geometric shape in a coordinate system, wherein the point (P), the line (L) or the other geometric shape has a colouring or greyscale corresponding to the present capacity utilization of the lifting device.

12. Arrangement according to at least one of the preceding claims, wherein the wireless transmission of the characteristic information used for the display is effected via its own parallel second transmission channel.

13. Arrangement according to claim 12, wherein the transmission channel is encrypted.

14. Hydraulic lifting device, in particular loading crane for a vehicle - particularly preferably

articulated arm crane - or aerial work platform, with an arrangement according to at least one of the preceding claims.