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Impact Test Equipment Ltd
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User Guide
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Structure of the menu system

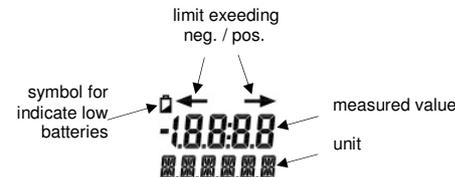
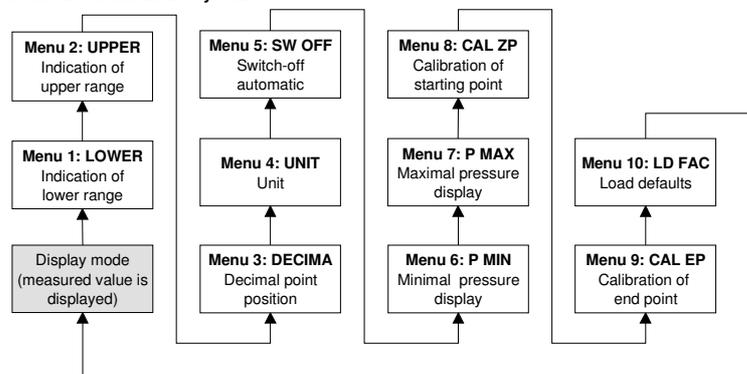


Fig. 3 LC-display

The indication of the measured value as well as the configuration of the individual parameters occurs menu-driven via the LC display. The individual functions can be set with the help of three miniature push buttons located in the front.

The menu system is a closed system allowing you to scroll both forward and backward through the individual set-up menus to navigate to the desired setting item. All settings are permanently stored in an EEPROM and therefore available again even after a battery change.

5.3 Menu list

| | |
|------------------|--|
| 1 LOWER | Displaying of the lower range This value was determined on the order and cannot be changed. |
| 2 UPPER | Displaying of the upper range This value was determined on the order and cannot be changed. |
| 3 DECIMA | Setting of the decimal point position Depending on the nominal pressure range and on the set unit, only a limited number of positions after the decimal point can be displayed. |
| 4 UNIT | Setting of the pressure unit Permissible units: bar, mbar, PSI, InHg, cmHg, mmHg, hPa, kPa, Mpa, mWs. Along with the unit, the decimal point position has probably to be changed in order to get a correct indication of the measured value. Besides, depending on the nominal pressure range, perhaps not all available units can be used. |
| 5 SW OFF | Configuration of the switch-off automatic Meaning of the permissible number: "0": switch-off automatic is turned off "1" - "5": automatic switch-off in 1 to 5 minutes |
| 6 P MIN | Minimum pressure display ▼-button: puts the current pressure as minimum value ▲-button: puts the value on zero |
| 7 P MAX | Maximum pressure display ▼-button: puts the current pressure as maximum value ▲-button: puts the value on zero |
| 8 CAL ZP | Calibration of initial point If you detect a shifting of the measured value deviating from the offset, the display can be re-calibrated. For this, a pressure reference is necessary if the offset differs from the ambient pressure. The used pressure must be identical to the starting point of the pressure measuring range. For reading the new pressure into the device, push the ▲ button. Please note the following deviation: -1 ... x bar: the offset is calibrated at -0.9 bar; during calibration we checked whether the device will be within tolerance at -1 bar (in theory); for re-calibration a pressure reference of -0.9 bar is necessary 0 ... x bar abs.: the offset is calibrated at 0.1 bar abs.; during calibration we checked whether the device will be within tolerance at 0 bar abs.; for re-calibration a pressure reference of 0.1 bar is necessary If the re-calibration leads to a worsening of the original calibration, e. g. as a result of a defect pressure reference, the defaults can be re-set by the menu item "LD FAC" according to your order |
| 9 CAL EP | Calibration of end point If you detect a shifting of the measured value deviating from the end point, the display can be re-calibrated. For this, a pressure reference is necessary if the offset differs from the ambient pressure. The used pressure must be identical to the end point of the pressure measuring range. For reading the new pressure into the device, push the ▲ button. If the re-calibration leads to a worsening of the original calibration, e. g. as a result of a defect pressure reference, the defaults can be re-set by the menu item "LD FAC" according to your order. |
| 10 LD FAC | Load defaults To load the defaults you have to push the ▲-button. After the action "LOADED" and "OK" appears in the display for a short time. The configuration mode will be left automatically. |

- ▲ / on button: with this button you turn the device on; in the operating mode you move forward in the menu system or increase the displayed value
- ▼ / off button: with this button you turn the device off; in the operating mode you move backwards in the menu system or decrease the displayed value
- OK-button: with this button you enter the operating mode; besides, it is used to activate the different menu items and to confirm the set values

To configure the different menu items, set the desired values by pushing the "▼" or "▲" buttons. Confirm the setting with the "OK" button and the menu item will start blinking to indicate that you can start the configuration.

To save the configured values or to leave a menu item, you also have to push the "OK" button.

Changes of the adjustable parameters become only effective after pushing the OK button and leaving the menu item. After leaving the menu system, all parameters will be checked against each other and in reference to the characteristics of the device. If the message "OK" appears in the display for some seconds, the configuration was successfully. If the message "ERROR" appears, at least one of the set values is out of the permissible range. For example, an error will occur if a device with a nominal pressure range of 400 bar should be set on 4 positions after the decimal point. If an error has been detected, the lastly runnable parameters will be set again.

After configuring the unit, the conversion of the pressure range (in menus UPPER und LOWER) into the new unit will only occur after leaving the complete menu system. Besides, depending on the number of displayed figures of the respective nominal pressure range, probably not all available units (in menu UNIT) can be used.

Supply / changing the batteries

The digital pressure gauge is supplied by two 3.6 V-lithium-batteries (Type 1/2 AA). Stored values/parameters are also kept after changing the batteries.

If the symbol for low batteries is indicated in the display, it is necessary to replace them as soon as possible with two new ones of the same type in order to ensure a good readability of the values. This has only to be done in switched-off condition.

The battery case is located under the black, circular plastic cap on the top of the housing. To change the batteries go ahead as follows:

- turn the plastic cap 45° anti clockwise by a coin (e.g. 2 € coin) as far as possible
- hold the count tight and lever the plastic cap out of the housing with help of the count
- take the cap off and change the batteries
- lock the device after that properly.



Fig. 4 battery case

! An incorrect usage may cause a leak out of batteries and so a damage the device!

! Never combine batteries of different types or old with new ones.

