Please read the mounting instructions and operating manual including the safety regulations completely prior to starting connection and start-up.

Installation and Operating Manual V2.51

The WLI (Water Level Indicator) had been designed for precise level measuring of supply water tanks in mobile homes, caravans and boats. The 18 mm mounting depth the electronic system allows flush mounting into commercial furniture boards to ensure that an optimum installation place can always be chosen without losing precious storage space.

WLI requires installation of a tank transmitter (measuring sensor) for example Votronic Tank Electrode 15-50 K or Tank Electrode 12-24 K.

The WLI device is equipped with the ON/OFF touch pad instead of mechanical switch to minimize the errors and longer durability.

Water level measuring is effected continuously, intermediate values are displayed. During refueling and defueling of the tanks, the continuously raising or dropping display shows a direct value of the instantaneous level in percentage.

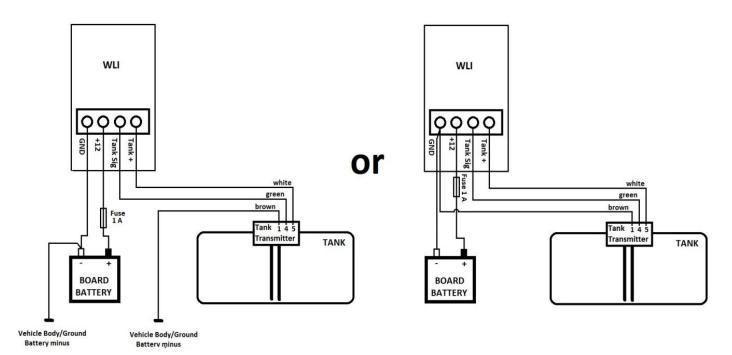
Installation:

Choose a well visible and easily accessible location in the living area for the installation of the units. The installation place in the front panel of the furniture should be chosen in such a way that the contrast of the display be not hindered (ex: sun light) and have a minimum 18 mm depth for the mounting. The rear cutout opening should be covered with non-electrical conducting material (e. g. plastic plate, poplar plywood, or similar material).

The clear opening of the furniture cutout should be slightly larger than the assembly dimensions of 35 x 69mm to ensure safe alignment of the unit's front panel. Use the delivered jig for marking.

Make all electric connections, place the unit centrically in the cutout and use the delivered screws for fastening. (For front panel screws use **Torx T10H** screwdriver)

Connection Plan:



Operation:

- To switch ON, touch the ON/OFF pad. In a few second the display will show the instantaneous level of the water. Graphical displayed water tank is divided to 100 levels. Each level corresponds to the tank water level in percentage.
- If the ON/OFF area is touched again, the device is switched-off.
- Numeric value in percentage is displayed when water level is above 0% and below 100%. Otherwise "EMPTY" or "FULL" is displayed.
- If water level is more than 0% the dropping water from the water tap is displayed on WLI as indication that device is correctly working. It does not mean leakage in water system!
- During defueling when water level decreases it will take around (1 5 sec) for the measuring value to stabilize due to water swirls in the tank. Correct value is displayed as soon as the water tap is closed and value can be 1-3% lower compared to the displayed value during the water pump is in operation (Depends on tank shape, tank volume, water pump and the distance between water pump and tank transmitter).
- If water level is below 20% or above 95% the numeric value is red colored. (in Fresh water mode)
- If water level is 5% or less, inscription "EMPTY" is displayed. (Fresh water mode)
- If water level is 95% or more, inscription "FULL" is displayed.
- If water level is 85% or more, red colored percentage value is displayed. (Gray water mode)
- 10 minutes after the last activity (changing the value), the WLI will be switched-off automatically for reason of power saving.
- 30 minutes after switched-on the WLI will be switched-off automatically.
- If backside jumper "LIT" is connected, WLI displays water level value on percentage and in liters(or gallons) too. An option is intended for custom production only! The tank volume value cannot be changed by users. It is possible to order preprogrammed device via email: info@kuzytronic.com otherwise is tank volume sets to 65 liters.
- Activation of the tank transmitter is effected together with the WLI (No power on tank transmitter when WLI is switched-off).

Settings:

There are five jumpers on the backside of WLI

R2	Decreasing preprogramed tank volume minus 5 liters. (or as ordered)
LIT	When connected WLI displays value in liters(or gallons) as mentioned in section Operation.
	Require factory programming to display correct value
R1	Changing the device function Fresh water(if disconnected) / Gray Water
MAX	Normally disconnected jumper. Allows to set maximum water tank level (calibrate WLI and
	tank)
TST	Normally disconnected jumper. When connected WLI displays its diagnostic value as a
	MIN, MAX, Input voltage, Software version and Serial Number,
MIN	Normally disconnected jumper. Allows to set minimum water tank level (calibrate WLI and
	tank)

Minimum water level setting:

A factory setting is MIN = 0. It means, when measuring signal (Tank signal from transmitter) is 0 Volt WDI displays 0%. In most applications it is not necessary to change it.

To set the MIN value to your desired value:

- fill the water tank to the desired minimum value level and switch-off WLI
- connect jumper MIN
- switch-on WLI and wait until "MIN OK" is displayed
- switch-off WLI
- disconnect jumper MIN

(The MIN value have to be less than MAX value, otherwise device will be set to factory value MIN = 0, MAX = 102).

Maximum water level setting:

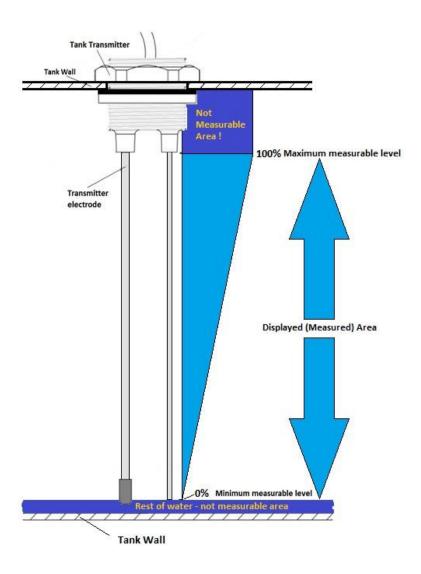
A factory setting is Max = 102, which represent measuring signal about 2,2V to display 100% water tank level. (The Votronic Tank Electrode 15-50 K tank signal output is 0 to 2,2V)

To set the MAX value/calibration of WLI and tank transmitter:

- fill the water tank to the desired maximum value level and switch-off WLI
- connect jumper MAX
- switch-on WLI and wait until "MAX OK" is displayed
- switch-off WLI
- disconnect jumper MAX

Notes:

- 1. Maximum allowed Tank signal is 5V. Voltage greater than 5V will damage the device!
- 2. If MAX value is set, Tank signal greater than MAX value will be displayed as a MAX value.
- 3. The MAX value has to be more than MIN value, otherwise device will be set to factory default value.
- 4. If the water level lies outside the Transmitter electrode, WLI will display MIN or MAX value
- 5. To display the correct value, MIN and MAX have to lie between the Maximum measurable and Minimum measurable level (see picture below).
- 6. Transmitter plastic body is not measurable area. If water level lies in this area, WLI will display "FULL" tank.



Every single device is checked before selling.

Spare parts and front panel spacers (3mm to 25mm) is possible to order on kuzytronic@gmail.com
The front panel can be made to order according to the specified dimensions and customer needs.

Check newer version of manual on www.kuzytronic.com