Installation 🛠

LARK
Model-V50R3P

U25

Water level controller

Fully automatic for
3 phase pumps

● **DOL starter**

● **3 phase another type starter**

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ ① ② ③ ④ ⑤ ⑥ ⑦

MADE IN INDIA ★ ★ ★ 100% QUALITY

Made in India

-AC Voltage-
Power Required:- 150V to 290V
Power Consumption:- 6.6W
Frequency:- 50Hz

Discription

This is a fully automatic water level controller which is microcontroller based and has such programs that it can be used in many ways. This device can be installed with any type of submersible or monoblock motor or Three phase type of motor which has any type of starter panel to run it. The motor can be run in fully auto mode, that too with all kinds of protection of the motor. This device is also used for single tank and is also used for lifting water from underground tank to overhead tank. This device also shows the water level of both tanks.

With this,2 wires have to be connected from the device to the tank and with the same 2 wires,it automatically turns the motor on and off and also tells the 5 levels of water inside the tank

About

1. Metal body Cabinet
2. Error codes details
3. Setting Diagram sticker
4. Digital Display for show tanks levels, underload overload, dry run Errors
5. 3 Push buttons manual motor ON-OFF & program setting.
6. Tank connection ports
7. Tank select Switch- 1side for underground and overhead tank, 2nd side for only overhead tank.
8. Circuit diagram sticker in the back side
9. Feature diagram sticker
10. Motor ON LED
11. Mode Switch-Auto, Manual, center OFF
12. C T coil connection ports
13. Starter connection ports
14. B S switch- 1 side for N.O-N.O setting 2nd side for N.O-N.C setting, (This may be needed depending on the starter)
15. power lead

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N.O- normaly open button

N.C- normaly close button

AB CD TANK.S EF B S

Sing tank   dbl tank

N.O
N.O   N.O
N.C

99% motor OFF level
75%
50%
25% motor ON level
LOW
UPPER TANK
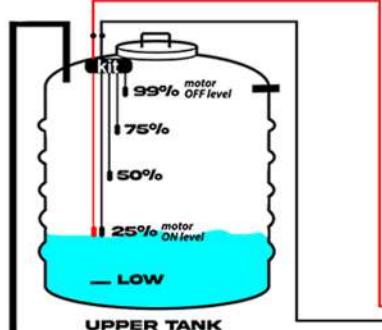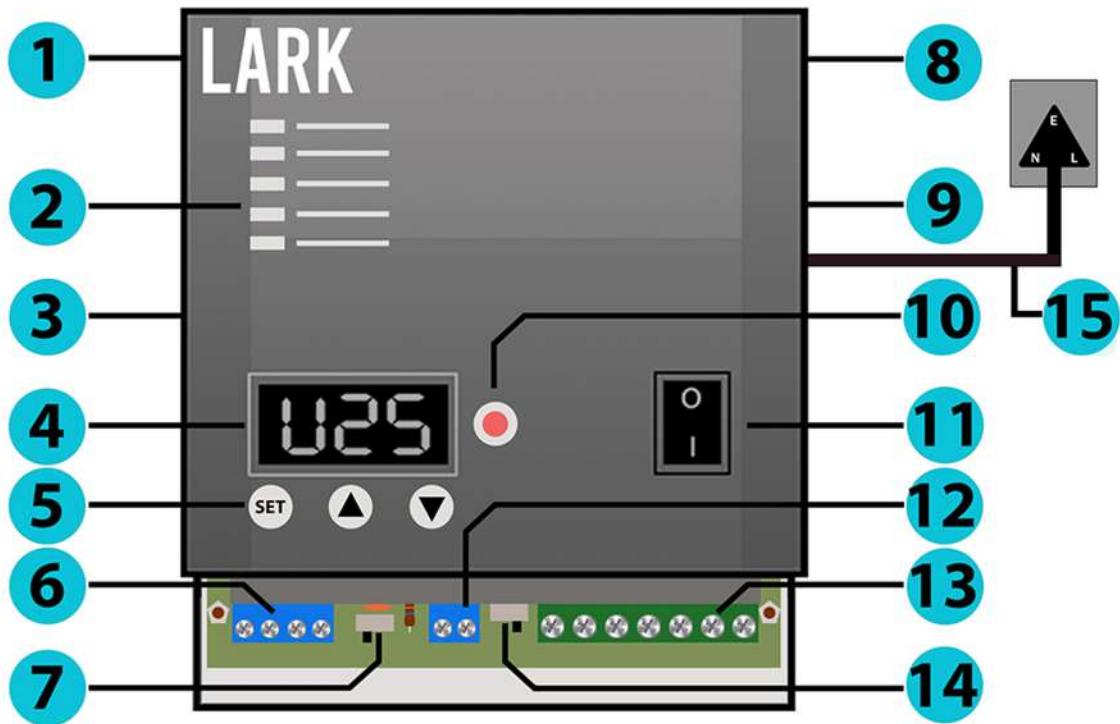
If you have only overhead single tank then you have to use only A-B ports for the sensor And tank button needs to be placed on single tank side
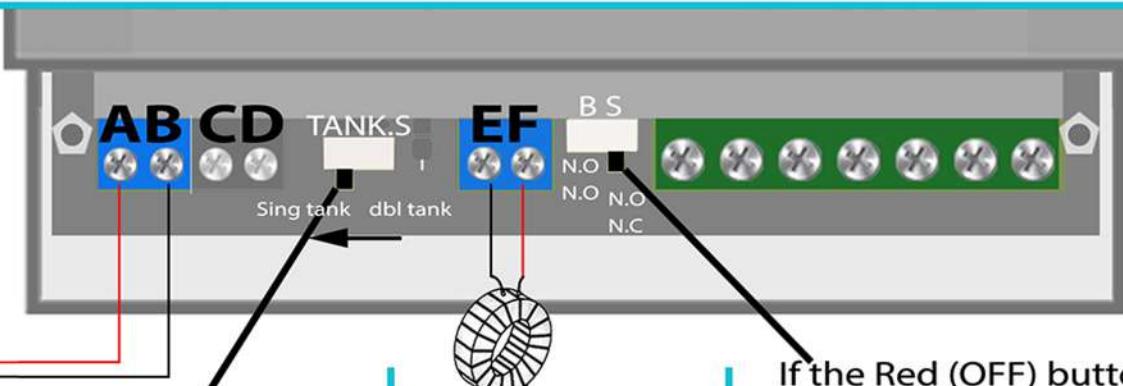
Any wire of CT coil can be installed on any side

If the Red (OFF) button of your starter is N.O type then move the BS button to N.O-N.O side, if the Red (OFF) button of your starter is N.C type then move the BS button to N.O-N.C side.

ERROR CODES

drd Dry run delay

When motor dry runs then display shows this error for 50 minutes and runs again after duration. [To reset - OFF/Auto]

LOc Low voltage cut

When voltage falls down from set voltage then it shows this error [To reset - OFF/Auto]

HI c high voltage cut

When voltage rise up from set voltage then it shows this error [To reset - OFF/Auto]

OLc Overload cut

When ampere goes high then it shows this error [To reset - press (SET) button for 4 seconds then display shows CL (clear) then press (▲) button]

Er1 U tank wire break — U - Upper Tank

Er2 U tank wire short

Er3 L tank wire break — Check wires U/L tank

Er4 L tank wire short — L - Lower Tank

FEATURES

upper tank level low	**ULo**
upper tank level 25%	**U25**
upper tank level 50%	**U50**
upper tank level 75%	**U75**
upper tank level 99%	**U99**

Tank water level Indication low to 99 (U- upper) on display

lower tank level low	**LLo**
lower tank level 25%	**L25**
lower tank level 50%	**L50**
lower tank level 75%	**L75**
lower tank level 99%	**L99**

Tank water level Indication low to 99 (L- lower) on display

PROTECTIONS

Press & Hold (SET)
For 4 sec. Then the display will show
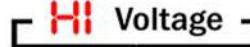
HI Voltage

Set HIGH voltage with (▲) (▼) Buttons

Press (SET) Then the display will show

LO Voltage

Set LOW voltage with (▲) (▼) Buttons

Press (SET) Then the display will show

OLP %

Set Overload % with (▲) (▼) Buttons

Press (SET) Then the display will show

drP %

Set Dryrun % with (▲) (▼) Buttons

Press (SET) Then the display will show

Cur CT coil

You can enable/disable CT coil with up down button

En ENABLE / **di** DISABLE

THEN

PRESS (SET) BUTTON

IT WILL BE SAVED AUTOMATICALLY

3 phase borewell/ submersible pump starter pannel and internal connection

(single phase 220v suitable for function)

430v 3 phase power supply from distribution board (separate mcb should be used) mcb rating depends on the pump rating.

R Y B

● Connect A and B port wires to common and signal

99%
75%
50%
25%
— LOW

UPPER TANK

U25

O
I
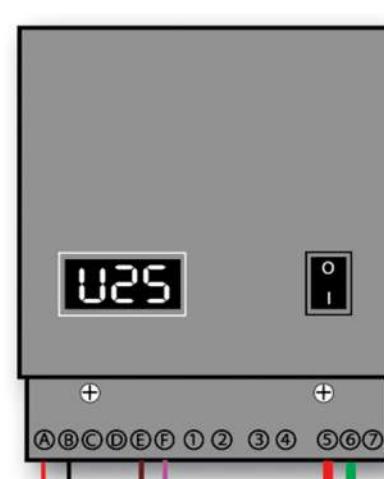
The main lead of device has no connection to the lower ports of device

Ⓐ Ⓑ Ⓒ Ⓓ Ⓔ Ⓕ ① ② ③ ④ ⑤ ⑥ ⑦

96-95   93 94

Remove this wire
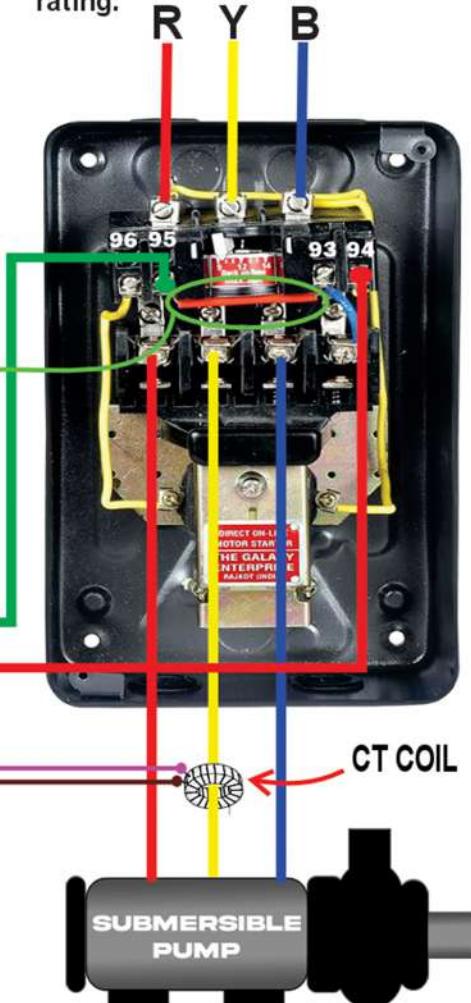
CT COIL

● Sensor should not be place in front of water flow

● Sensor wires should not be shuffled with each other

● Hang sensor at there proper level using tie clamps

● Connection of sensor kit wire should not be inside

SUBMERSIBLE PUMP

● CT coil should be pass through yellow wire of submersiblepump

● Connect 5 and 6 port wires to 94 and 95 of overload relay (as shown above)

● Connect E and F port wires to ct coil

Scan after installtion / आखिर में सकेन करना

After installing this model, it has to be scanned only then it will be able to save the data of the motor according to the ampere of your motor, load of the motor, condition of the motor, depth of the motor in the borewell

SCAN

इस माँडल को लगा लेने के बाद इसको सकेन मोड पे लगाना होता है,तभी यह आपकी मोटर के एम्पीयर, मोटर के लोड, मोटर की हालत, मोटर की बोरवेल में गहराई के मुताबक मोटर के डेटा को सेव कर पाएगा।
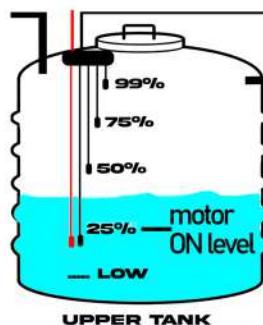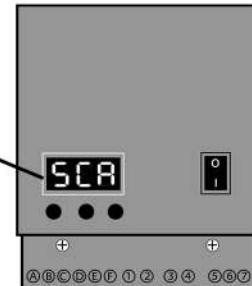
For proper scanning, the water in the tank should be above the motor on level. If there is less water in the tank, first turn on the motor manually and increase the water level in the tank to above the motor on level. The tank should not be(99%) completely full.

सही सकैन करने के लिए टैंक में पानी 'मोटर आन लेवल' से ऊपर होना चाहिए,अगर टैंक में पानी कम है तो पहले आप मोटर को मैनुअल चला कर टैंक में पानी 'मोटर आन लेवल'से जयादा कर लें। टेंक पूरा फुल(99%)भी नहीं होना चाहिए।

| Start the scan | Place both fingers on the Device Set button and the Motor On green button | Press and hold the green button on the device with one finger, the motor will start. after the motor starts without releasing the green button press and hold the SET button with another finger, now both buttons are pressed, the scan will start in 4 seconds, release both buttons when SCAN **SCA** shows on the display In 1 minutes the device will save all the data of the submersible and come out of the scan. |

सकैन शुरू करें

डिवाइस को आँटो मोड पर करें
put device on auto mode

डिवाइस के सेट बटन ओर मोटर आन(हरा) बटन पर दोनो उंगलियां रखिये
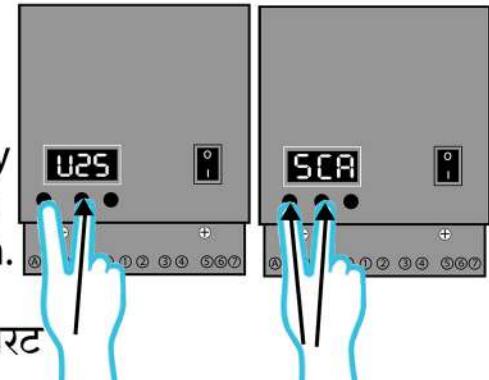
डिवाइस पर हरे बटन को एक उंगली से दबाऐं ओर दबाकर रखें,मोटर सटारट हो जाएगी मोटर सटारट होने के बाद हरे बटन को बिना छोड़े दूसरी उंगली से सेट बटन को भी दबाऐं ओर दबाकर रखें 4 सेकंड मै सकैन शुरू हो जाएगी,जैसे ही डिसपले में सकैन **SCA** शौ हो,दोनो बटन छोड़ दें। 1 मिनट में डिवाइस आपके सबमर्सिबल का पूरा डाटा सेव करेगा ओर सकैन से बाहर आ जाएगा।