

General information

- 4 levels of water level checking, viz. 1/4th, half, 3/4th and full
- Receiver has 30Amps potential free contact relay
- Do not directly couple a motor to the receiver relay (always use external relay to trigger)
- Signal range 3 – 4 kms (line of sight)

Conditions for pump ON/OFF

- When overhead tank water level is 1/4th or below => pump ON
- When overhead tank water level is FULL or more => pump OFF

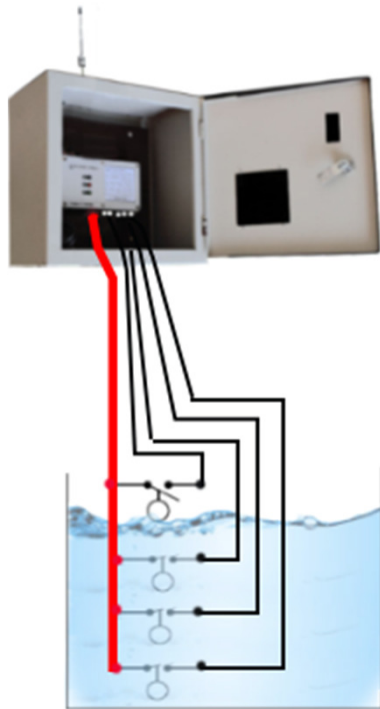
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FBXPC05A: Wireless automatic water level controller

Technical specification



Range of communication:

-----meters indoors

-----meters outdoors (line of sight)

Transmitter unit:

Enclosure type: IP 65 (color grey)

Size: 190 x 90 x 55 mm

Weight: 350gms

Metallic enclosure dimension: 300 x 300 x 170 mm

Weight: 4500 gms

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Model: FBXPC03A water level sensor + transmitter

1 output signal line

Loop back to 4 input signal lines

Each connected to float switches or equivalent

Indicators Wireless automatic water level controller

- Power: GREEN
- Sync: BLUE
- 1/4th water level: RED
- Half water level: RED
- 3/4th water level: RED
- Full water level: RED

Technical details:

- Transmitter with external PA +28dbm
- Operating frequency: 380 – 480 MHz
- System operates works on signal hop mechanism. Signal transmission happens at more than 12-15 predefined frequencies
- Modulation type: GFSK
- Radio IC: CC1100 (Chipcon/TI) and other equivalents in sub-GHz freq.
- Modulation: GFSK
- Data packet error correction mechanism: FEC

Connection wiring diagram:

Level sensor unit has a 6 point connector, of which 2 are for power supply and the remaining 4 are for signal level checking. The main signals loops back through a level sensor / float sensor (potential free contacts) to the respective level inputs. The red line shown in the picture contains the pulsating current of very feeble strength.

Operating voltage:

110-220VAC/50-60Hz to 12VDC converter adapter supplied.

Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power.

Application and features:

Turning motor pump ON/OFF from a distant location

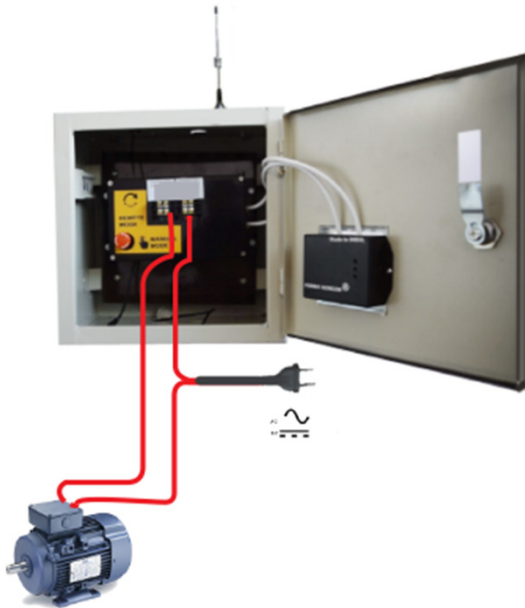
Automation / manual mode of operation

Automatic mode: Remote controller used to turn ON/OFF

Manual mode: Existing pump starter used to turn ON/OFF
(In manual mode, remote controller signals are bypassed)

FBXPC05A: Wireless automatic water level controller

Technical specification



Receiver unit:

Enclosure type: IP 65 (color grey)
Size: 190 x 90 x 55 mm
Weight: 350gms
Metallic enclosure dimension: 300 x 300 x 170 mm
Weight: 4500 gms

Model: FBXPC03A receiver with automatic ON/OFF switch

2 output terminal through 30Amps potential free contact
Manual switch to bypass the wireless signal from the transmitter

Indicators Wireless automatic water level controller

- Power: GREEN
- Sync: BLUE
- Mode: YELLOW: manual / radio

Tank level indicators

- 1/4th water level: RED
- Half water level: RED
- 3/4th water level: RED
- Full water level: RED

Technical details:

- Operating frequency: 380 – 480 MHz
- Receiver operates works on signal hop mechanism. Reception happens at more than 12-15 predefined frequencies
- Modulation type: GFSK
- Radio IC: CC1100 (Chipcon/TI) and other equivalents in sub-GHz freq.
- Receiver sensitivity: – 112 dbm
- Modulation: GFSK
- Data packet error correction mechanism: FEC
- 1m wire / rubber duck antenna (+3dbi)

Precautions and mounting locations:

- Avoid connecting relay contactor directly to motors (initial startup surge currents will damage the device)
- Mounted on the top of wall
- Easy mounting with 4 screws to secure it tightly
- IP65 enclosure unit, robust and weatherproof
- Suitable for out door applications as well
- Keep away antennas from external metallic enclosures

Operating voltage:

110-220VAC/50-60Hz to 12VDC converter adapter supplied.
Unit can also be plugged to any 12V external battery. Active working hours depends on the battery power.

Application and features:

Turning motor pump ON/OFF from a distant location
Automation / manual mode of operation
Automatic mode: Remote controller used to turn ON/OFF
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(In manual mode, remote controller signals are bypassed)

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