

# FBXPC03D: Wireless motor pump controller

## Technical specification



**Long range transmitter**



**Pump ON/OFF button**

FORBIX SEMICON INDIA PVT. LTD.  
Bangalore, India  
Website: <https://www.forbixindia.com>  
+91 9742370190 / +91 9742159846

FORBIX Osäuhing,  
Tallinn, Estonia  
Website: <https://www.forbix.eu>  
+372 880 1510

Email: [sales@forbixindia.com](mailto:sales@forbixindia.com)

### Wireless motor pump controller to trigger DOL starter

Model: **FBXPC03D**

Range of communication:  
2 – 3 kilometers in urban area  
6 – 7 kilometers outdoors (line of sight)

Transmitter (wall mount)  
Pump ON/OFF switch connects to transmitter with wire  
Operating voltage (12VDC)  

- Single channel long range transmitter (2-3Kms range)
- 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

Pump controller receiver (wall mount):  
Operating voltage: 12VDC  
(110-220VAC-50/60Hz to 12VDC adapter supplied)  
Remote controller size: 240 x 140 x 80 mm  
Remote controller weight: 480 gms

Remote buttons:  
Top => to turn ON the pump  
Bottom => to turn OFF the pump

Pump controller buttons:  
RED button: Not pressed (default) => Remote mode  
RED button pressed => Controller in manual mode

Indicators for pump controller receiver:  
Power: GREEN  
Sync: BLUE  
Remote mode: RED  
Manual mode: RED  
Start contactor: YELLOW  
Motor ON: GREEN

The radio receiver unit drives the START (green) and STOP (red) button of the DOL starter.

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)

**DOL (Direct On Line) starter  
EXISTING wiring**

**DOL (Direct On Line) starter  
MODIFIED wiring**

