



## Radio Remote Control System

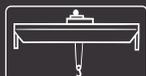


The walnut advance Radio Remote Control incorporates within its compact design all the functions of advance radio remote control. Its ideal for EOT cranes, Gantry cranes, Tower cranes & other Industrial machineries. It is designed to operate wide variety industrial applications, its compact design enables the operator to work in extreme conditions with greater safety.

The Remote Radio modules are CE complaints and work on free 2.4ghz ISM frequency bandwidth.

The major differences between the other remotes in the industry and ours is as follows:

1. The Remotes available in the market use 433 or 865mhz frequency bandwidth whereas we use 2.4ghz frequency bandwidth which is more reliable and there is no data loss.
2. The regular industrial remotes use frequency switching for grouping purposes, where they switch the transmission frequency by a few hz. this is a main cause for the data loss as the antenna structure is specifically ideal for only one frequency and if th frequency is changed, one needs to change the antenna accordingly. We on the other hand, do not use frequency change, the grouping is done by our microcontroller equipment inside receiving unit, so it is more reliable.
3. The regular industrial remotes use normal radio modules which are cheap, they tend to cross talk with other modules within the area of their broadcast. we use the best module available with four layer 16 bit security, which is highly accurate to talk only to the module of which the address is been issued to.
4. The regular remotes tend to get malfunctioned by electrical surges and EMFs produced by Electrical sparks and heavy current passing nearby, but in our case, high frequency and security towards spikes and spark mode rejection allows to securely transfer on air data.



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The Radio remote transmitter has 7 single depression push buttons with Start / Emergency Stop Button. Transmitter Status, Charging status & Low battery indication can be monitored via indicating LED available on transmitter.

The receiver of the system has 8 ( 6 + Start + Stop ) potential free contact relays which user can configure as per the requirement. Relay Indication LED Available on Receiver.

## Technical Specification

Number of Commands	Up to 6 + Start/ Stop
Responding Time	<20 ms
Operating Distance	100 Mtr
Security Level	Four Layer Security

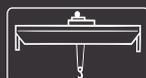
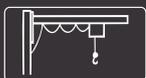
## Transmitter

Number of push buttons	6 (directions) + 1(on/off)
Transmitting power Consumption	< 45ma
Standby power Consumption	< 10 µa
Operating Temperature	-20°C To +80 °C
Weight	200gm
Dimensions	155mm x80mm x30mm
Battery	3.7 V Li-ion 2200mah Rechargeable



## Receiver

No. of Potential free contacts	8 ( 6 + Start/Stop )
Relays	7A 240V AC 50Hz 10A 110V AC 50Hz
Power Supply	100V AC - 270V AC
Dimensions	220mm x145mm x55mm
Weight	750gm
Protection Level	Ip65



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Radio Controls

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