



ANAND

Systems Engineering



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Andheri Kurla Road, Sakinaka, Mumbai - 400072

**Latest 2.4 Ghz Radio
Remote approved by
Government of India**



Radio Remote Controls for EOT Cranes & Hoists

Service , Phone & Installation support all over India

**Premium
Quality**

**1000+ Hour
Battery Life**

**1 Year
Warranty**

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**Made
in
India**



Anand Radio Remote Control MODELS

ARC-201
ARC-202



ARC-401
ARC-402



ARC-601
ARC-602



ARC-801
ARC-802



ARC-1001
ARC-1002



ARC-1201
ARC-1202

ARC Series Radio Remote Controls

ARC-201 / ARC-202

ARC-201 : 2 Button Single Speed
ARC-202: 2 Button Dual Speed
- On/Off Keys

ARC-401 / ARC-402

ARC-401: 4 Button Single Speed
ARC-402: 4 Button Dual Speed
- On/Off, MH Up/Down Keys

ARC-601 / ARC-602

ARC-601: 6 Button Single Speed
ARC-602: 6 Button Dual Speed
- On/Off, MH Up/Down,
CT Left/Right Keys

ARC-801 / ARC-802

ARC-801: 8 Button Single Speed
ARC-802: 8 Button Dual Speed
- On/Off, MH Up/Down,
CT Left/Right, LT Fwd/Rev Keys

ARC-1001 / ARC-1002

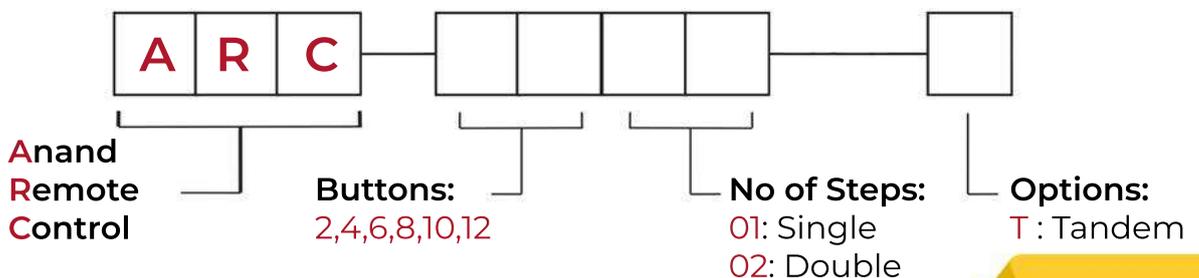
ARC-1001: 10 Button Single Speed
ARC-1002: 10 Button Dual Speed
- On/Off, MH Up/Down,
AH Up/Down, CT Left/Right,
LT Fwd/Rev Keys

ARC-1201 / ARC-1202

ARC-1201: 12 Button Single Speed
ARC-1202: 12 Button Dual Speed
- On/Off, MH Up/Down,
AH Up/Down, CT Left/Right,
LT Fwd/Rev, Spare/Light Keys

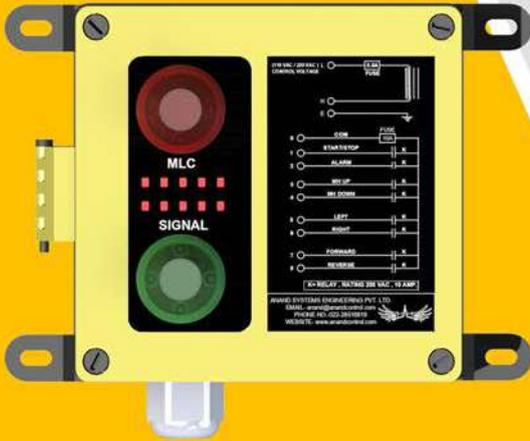
**all Models can have customized labels, Interlockings & functions.*

How to Order:



Receiver Options

Anand Systems Engineering



SMALL RECEIVER
 UPTO 8 RELAYS
 160 x 165 x 85 mm



BIG RECEIVER
 UPTO 32 RELAYS
 199 x 269 x 100 mm

TRANSMITTERS FOR SMALL RECEIVER



ARC-201 ARC-401 ARC-601 ARC-801
 ARC-202 ARC-402 ARC-602

TRANSMITTERS FOR BIG RECEIVER



ARC-802 ARC-1001 ARC-1201
 ARC-1002 ARC-1202

Receiver Tech Specs:

Power Supply Options-

24 VAC / 48 VAC / 110VAC / 220VAC
 12 VDC / 24 VDC / 48 VDC

Relay Ratings-

upto 250 VAC / 30 VDC / 10Amps
 Electrical Life : 100 x 10³ Ops

Cable-

Length: 2 meters , Core Area : 1.5mm²

Features:

- IP65 Certified - Water & Dust Proof
- Internal Antenna protected from external environment
- Signal, Power & Start Indications for transparent Operation
- Wiring Diagram for easy installation
- Receivers are Made of Tough Polycarbonate plastic

Anand Remote Control Features & Benefits

Anand Wireless Remote Controls
are designed from the ground up for
harsh Industrial Use.

- ✓ 100 Meters **Long Range** Communication.
- ✓ **Internal Antenna** protected from damage.
- ✓ **Safety Circuit in Receiver** to cut-off power.
in-case of any fault or emergency activation.

- ✓ Premium Push Buttons & **Long Life Relays.**
- ✓ **1000+** Hour Battery Life
- ✓ 10 Minute **Idle Shutdown Timer** , Increases
safety, reduces power consumption of Crane.

CUSTOMIZED RADIO RANGE

Range can be customized between 5 meters & 100 meters according to the end application. Reduced Range can help in preventing accidents in case of mix-up of different transmitters on the factory floor.

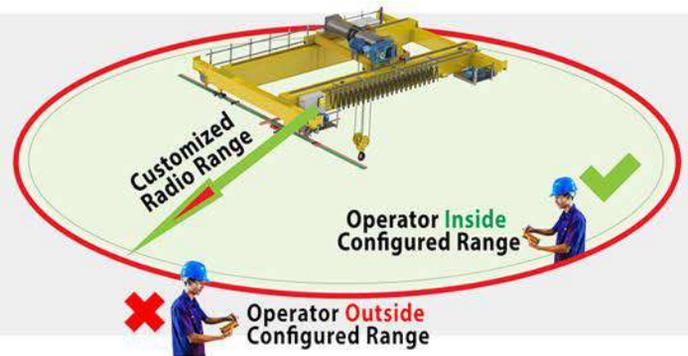


Transmit Power : 75%
Battery Consumption : **MODERATE**



10 50 100

Distance from Receiver in Meters



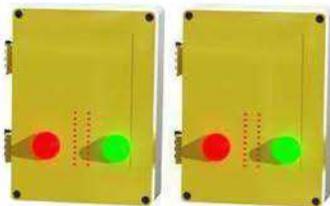
AUTO POWER CONTROL

Transmission Power is reduced or increased according to the distance between the receiver & transmitter. Increases Battery Life.

CLOSED LOOP COMMUNICATION

Feedback allows the transmitter to know if the receiver has correctly received the transmitted signal. If Receiver is responding, green indication is shown to operator. If receiver is switched off, red indication is turned on.

feedback
from receiver



TANDEM MODE

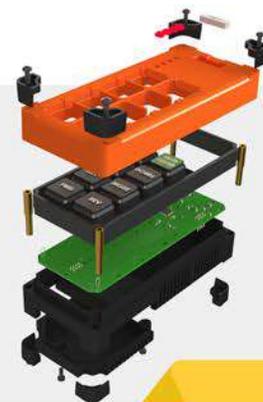
In Tandem Mode ,movement of two cranes is synchronized with the help of selector switch on the transmitter.

Operator can either select

- 1) Crane 1
- 2) Crane 2
- 3) Crane 1+2

IP66 RATED ROBUST CONSTRUCTION

Nylon enclosure , rubbers corners , silicone membrane for push buttons and metal inserts, create a highly robust remote control. IP65 rated transmitter & Receiver protects against dust & water ingress in the most demanding of industrial environments.



Technical Specifications

Anand Radio Remote Controls use

- Digital RF Chip Based Radio Communication.
- Each System comes with Unique preconfigured Address.
- No Pairing-Crystals in Transmitter & Receiver.

RADIO TECHNOLOGY:

Frequency : **2.4 Ghz** ISM Band,2.405-2.480Ghz
RF Modulation : DSSS with OQPSK
Channels : **16** ,Automatic Frequency Hopping
Channel Specs : Bandwidth-2 Mhz,Spacing-5 Mhz
Co Existence : more than **100 Radios in same area**
RF power : max: +4dBm
Range : **100 Meters**
Communication : Half Duplex Closed Loop
RF Sensitivity : Receiver Sensitivity -103dBm
Encryption : Proprietary **128-bit AES** Encryption
Antenna : **Internal Antenna** for Transmitter & Receiver. Protected from environment & handling damage.

- With Automatic Frequency Hopping technology, **busy channels are automatically changed**, in Transmitter & Receiver without operator knowledge, to maintain communication.
- With Proprietary 128-bit AES Encryption , communication between Transmitter & Receiver is protected, safe & **unhackable** .
- **DSSS technology** avoids intentional interference such as radio jammers & unintentional interference from nearby cellphone towers.

TRANSMITTER SPECS:

Push Buttons

Configurations : **Single Step | Dual Step**
Electrical Life : Single Step Life-1 Million Cycles
: Dual Step Life-20,000 Cycles
Type of Button : Tactile
Actuation Force: Single Step - 270 grams
: Dual Step
(1st-490 grams|2nd-1150 grams)

Enclosure

Dimensions : 166 x 161 x 35 mm
Plastic : Top Cover Orange Nylon66
: Bottom Cover Black Nylon66
: Silicone Membrane for Buttons
: 8 Rubber Corners
: Battery Cover Black Nylon66
IP Rating : **IP65 Water & Dust Proof**
Temperature : 0 TO 60° C
Indications : Low Battery at 20% power,
Emergency,Signal OK

Battery

Life : **2-3 Months Typical Use**,
1+ Years Idle system.
Type : 2 AA Alkaline Batteries or
: 2 AA NiMH Batteries
Emerg Stop : Magnetic Hall Effect Sensing.

RECEIVER SPECS:

Relays

Number : Upto 32 Relays
Max Rating : 250VAC/30VDC/10 Amps
Electrical Life : **100 x 10³ Operations**
Time : Turn-On / Turn-Off 15ms
Type : **Potential Free PCB Relays**

Enclosure

Dimensions : Small Receiver-
166 x 161 x 85 mm
Big Receiver-
269x199x105 mm
Plastic : Polycarbonate
IP Rating : IP65 Water & Dust Proof
Temperature : 0 TO 60° C
Indications : Power, Signal & MLC

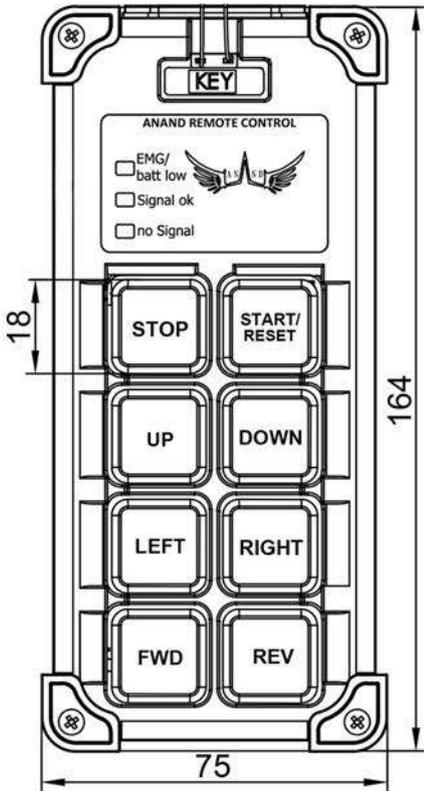
Power Supply Options

AC : 24/48/110/220/415 VAC
DC : 12/24 VDC
* Select 1 from AC or DC

Cable :Multi-Core 1.5 sq.mm Cable
2 Meters Long

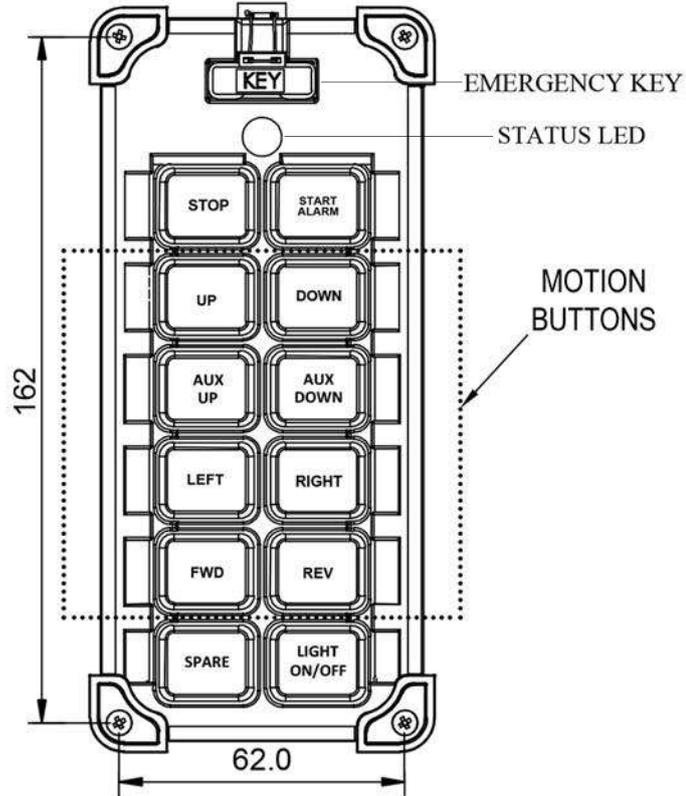
REMOTE CONTROL DIMENSIONAL DRAWINGS

8 BUTTON TRANSMITTER



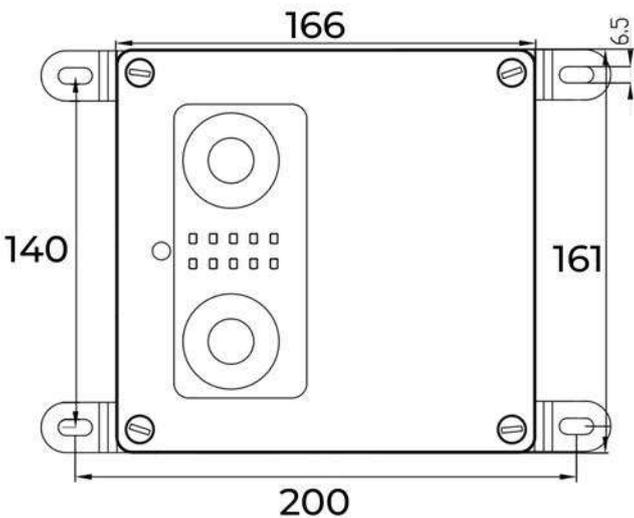
164 x 75 x 45 mm
 Weight : 354 gms
 Plastic: Nylon

12 BUTTON TRANSMITTER



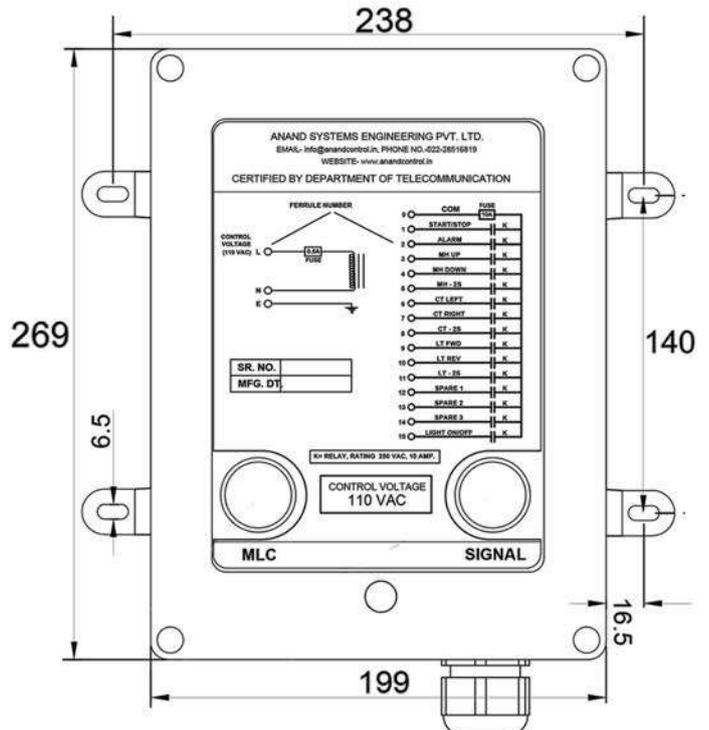
164 x 75 x 45 mm
 Weight : 354 gms
 Plastic: Nylon

SMALL RECEIVER



166x161x85 mm , Weight : 1 kg
 Plastic: Polycarbonate

BIG RECEIVER



269x199x105 mm , Weight : 1.7 kg
 Plastic: Polycarbonate