



**SPEED-O-CONTROLS**  
**PVT. LTD.**

**RADIO REMOTE CONTROLS**

# IMPACT



**DISCOVER OUR RANGE OF RADIO REMOTE CONTROLS SYSTEMS**

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### IMPACT-501T/502T

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## Salient Features

- ◆ **Pairing**  
Any transmitter & receiver can be paired on-site (for easy spare management)
- ◆ **Adjustable Range**  
Operating Range Adjustment (from 10m to 100m)
- ◆ **Adjustable Start Range**  
Only START functionality can be range adjustable
- ◆ **Password**  
Transmitter password protection
- ◆ **Frequency Change**  
Operating channel can be changed on site
- ◆ **Idle Time**  
Configurable Idle Time out in Transmitter

## Additional Features

|                     |   |
|---------------------|---|
| Emergency STOP      | 1 NO contacts for EMS + 1 magnetic key                        |
| Indication          | LED Indication for Battery LOW, Transmission and Error status |
| Address Code        | Unique Address Code to avoid interference                     |
| Antenna             | Internal Antenna in transmitter & receiver                    |
| Relay Assignment    | Configurable Relay assignment available                       |
| Auxillary Functions | Selector Switch / Toggle Switch/ Push Buttons /Rotary Switch  |

## Transmitter

|                           |                               |
|---------------------------|-------------------------------|
| Operating Frequency       | 433-434 Mhz                   |
| Channel Spacing           | 25 KHz                        |
| Modulation                | FM (4GFSK/2GFSK)              |
| RF Power Output           | 10 mW                         |
| Power Consumption         | 18 mA (Unidirectional)        |
| Standby Power Consumption | 1 mA                          |
| Battery Capacity and Type | 2 nos, AA size Alkaline, 3.0V |
| Operating Temperature     | -20°C to +70°C                |
| Weight                    | 325 gms (without battery)     |
| Dimensions (mm)           | 165 (H) X 75 (W) X 50 (B)     |
| Operating Range           | 100 meters                    |
| Protection Rating         | IP 65 IS/IEC 600529:2001      |

| TRANSMITTER  | RECEIVER  |
|--|---|
|  |  |
| IMPACT-301 →   | 6 Pushbutton<br>Single speed  |
| IMPACT-302 →   | 6 Pushbutton<br>Double speed  |

## Technical Specification

|  |                        |
|--|------------------------|
| Number of commands in Transmitter unit <b>IMPACT 301</b> | 6 + Start/Stop + Alarm |
| Number of commands in Transmitter unit <b>IMPACT 302</b> | 6 + Start/Stop + Alarm |
| CRC  | 32 Bit                 |
| Response Time  | <50 ms                 |
| Active Emergency Response Time                           | <50 ms                 |
| Passive Emergency Response Time                          | 1900 ms                |

## Receiver

|                                    |                              |
|------------------------------------|------------------------------|
| Operating Frequency                | 433-434 Mhz                  |
| Channel Spacing                    | 25 KHz                       |
| RF Sensitivity                     | -117dBm at 0.6kBaud          |
| Number of Relays <b>IMPACT 301</b> | 6 + 2 (Start/Alarm)          |
| Number of Relays <b>IMPACT 302</b> | 9 + 2 (Start/Alarm)          |
| Relays                             | Resistive load: 5A at 250VAC |
| Power Requirements                 | 48VAC - 230VAC               |
| Fastening                          | By means of Nuts & Bolts     |
| Operating Temperature              | -20°C to +70°C               |
| Weight                             | Approx 0.8 Kg                |
| Dimensions (mm)                    | 165 (H) x 150 (B) x 72 (W)   |
| Operating Range                    | 100 meters                   |
| Protection Rating                  | IP 65                        |

## Salient Features

### ◆ Pairing

Any transmitter & receiver can be paired on-site (for easy spare management)

### ◆ Adjustable Range

Operating Range Adjustment (from 10m to 100m)

### ◆ Adjustable Start Range

Only START functionality can be range adjustable

### ◆ Password

Transmitter password protection

### ◆ Frequency Change

Operating channel can be changed on site

### ◆ Idle Time

Configurable Idle Time out in Transmitter

## Additional Features

|                     |   |
|---------------------|---|
| Emergency STOP      | 1 NO contacts for EMS + 1 magnetic key                        |
| Indication          | LED Indication for Battery LOW, Transmission and Error status |
| Address Code        | Unique Address Code to avoid interference                     |
| Antenna             | Internal Antenna in transmitter & receiver                    |
| Relay Assignment    | Configurable Relay assignment available                       |
| Auxillary Functions | Selector Switch / Toggle Switch/ Push Buttons /Rotary Switch  |

## Transmitter

|                           |                               |
|---------------------------|-------------------------------|
| Operating Frequency       | 433-434 Mhz                   |
| Channel Spacing           | 25 KHz                        |
| Modulation                | FM (4GFSK/2GFSK)              |
| RF Power Output           | 10 mW                         |
| Power Consumption         | 18 mA (Unidirectional)        |
| Standby Power Consumption | 1 mA                          |
| Battery Capacity and Type | 2 nos, AA size Alkaline, 3.0V |
| Operating Temperature     | -20°C to +70°C                |
| Weight                    | 500 gms (without battery)     |
| Dimensions (mm)           | 165 (H) X 75 (W) X 50 (B)     |
| Operating Range           | 100 meters                    |
| Protection Rating         | IP 65 IS/IEC 600529:2001      |

| TRANSMITTER  | RECEIVER  |
|--|---|
|  |  |
| <b>IMPACT-501</b> →  | 10 Pushbutton<br>Single speed   |
| <b>IMPACT-502</b> →  | 10 Pushbutton<br>Double speed   |

## Technical Specification

|  |                         |
|--|-------------------------|
| Number of commands in Transmitter unit <b>IMPACT 501</b> | 10 + Start/Stop + Alarm |
| Number of commands in Transmitter unit <b>IMPACT 502</b> | 20 + Start/Stop + Alarm |
| CRC  | 32 Bit                  |
| Response Time  | <50 ms                  |
| Active Emergency Response Time                           | <50 ms                  |
| Passive Emergency Response Time                          | 1900 ms                 |

## Receiver

|                                    |                              |
|------------------------------------|------------------------------|
| Operating Frequency                | 433-434 Mhz                  |
| Channel Spacing                    | 25 KHz                       |
| RF Sensitivity                     | -117dBm at 0.6kBaud          |
| Number of Relays <b>IMPACT 501</b> | 10 + 2 (Start/Alarm)         |
| Number of Relays <b>IMPACT 502</b> | 15 + 2 (Start/Alarm)         |
| Relays                             | Resistive load: 5A at 250VAC |
| Power Requirements                 | 48VAC - 230VAC               |
| Fastening                          | By means of Nuts & Bolts     |
| Operating Temperature              | -20°C to +70°C               |
| Weight                             | Approx 0.8 Kg                |
| Dimensions (mm)                    | 284 (H) x 220 (B) x 110 (W)  |
| Operating Range                    | 100 meters                   |
| Protection Rating                  | IP 65 (NABL lab tested)      |

## Salient Features

### ◆ Pairing

Any transmitter & receiver can be paired on-site (for easy spare management)

### ◆ Adjustable Range

Operating Range Adjustment (from 10m to 100m)

### ◆ Adjustable Start Range

Only START functionality can be range adjustable

### ◆ Password

Transmitter password protection

### ◆ Frequency Change

Operating channel can be changed on site

### ◆ Idle Time

Configurable Idle Time out in Transmitter

## Additional Features

|                     |   |
|---------------------|---|
| Emergency STOP      | 1 NO contacts for EMS + 1 magnetic key                        |
| Indication          | LED Indication for Battery LOW, Transmission and Error status |
| Address Code        | Unique Address Code to avoid interference                     |
| Antenna             | Internal Antenna in transmitter & receiver                    |
| Relay Assignment    | Configurable Relay assignment available                       |
| Auxillary Functions | Selector Switch / Toggle Switch/ Push Buttons /Rotary Switch  |

## Transmitter

|                           |                               |
|---------------------------|-------------------------------|
| Operating Frequency       | 433-434 Mhz                   |
| Channel Spacing           | 25 KHz                        |
| Modulation                | FM (4GFSK/2GFSK)              |
| RF Power Output           | 10 mW                         |
| Power Consumption         | 18 mA (Unidirectional)        |
| Standby Power Consumption | 1 mA                          |
| Battery Capacity and Type | 2 nos, AA size Alkaline, 3.0V |
| Operating Temperature     | -20°C to +70°C                |
| Weight                    | 350 gms (without battery)     |
| Dimensions (mm)           | 205 (H) X 75 (W) X 45 (B)     |
| Operating Range           | 100 meters                    |
| Protection Rating         | IP 65 IS/IEC 600529:2001      |

| TRANSMITTER  | RECEIVER  |
|--|---|
|  |  |
| <b>IMPACT-301T</b> →   | 6 Pushbutton<br>Single speed<br>+ Aux functions                                     |
| <b>IMPACT-302T</b> →   | 6 Pushbutton<br>Double speed<br>+ Aux functions                                     |

## Technical Specification

|   |                             |
|---|-----------------------------|
| Number of commands in Transmitter unit <b>IMPACT 301T</b> | Upto 12 + Start/Stop +Alarm |
| Number of commands in Transmitter unit <b>IMPACT 302T</b> | Upto 12 + Start/Stop +Alarm |
| CRC   | 32 Bit                      |
| Response Time   | <50 ms                      |
| Active Emergency Response Time                            | <50 ms                      |
| Passive Emergency Response Time                           | 1900 ms                     |

## Receiver

|                                 |                              |
|---------------------------------|------------------------------|
| Operating Frequency             | 433-434 Mhz                  |
| Channel Spacing                 | 25 KHz                       |
| RF Sensitivity                  | -117dBm at 0.6kBaud          |
| No of Relays <b>IMPACT 301T</b> | Upto 21 + 2 (Start/Alarm)    |
| No of Relays <b>IMPACT 302T</b> | Upto 21 + 2 (Start/Alarm)    |
| Relays                          | Resistive load: 5A at 250VAC |
| Power Requirements              | 48VAC - 230VAC               |
| Fastening                       | By means of Nuts & Bolts     |
| Operating Temperature           | -20°C to +70°C               |
| Weight                          | Approx 1.40 Kg               |
| Dimensions (mm)                 | 282 (H) x 220 (B) x 110 (W)  |
| Operating Range                 | 100 meters                   |
| Protection Rating               | IP 65 (NABL lab tested)      |

## Salient Features

### ◆ Pairing

Any transmitter & receiver can be paired on-site (for easy spare management)

### ◆ Adjustable Range

Operating Range Adjustment (from 10m to 100m)

### ◆ Adjustable Start Range

Only START functionality can be range adjustable

### ◆ Password

Transmitter password protection

### ◆ Frequency Change

Operating channel can be changed on site

### ◆ Idle Time

Configurable Idle Time out in Transmitter

| TRANSMITTER  | RECEIVER  |
|--|---|
|  |  |
| <b>IMPACT-501T</b> →   | 10 Pushbutton<br>Single speed<br>+ Aux functions                                    |
| <b>IMPACT-502T</b> →   | 10 Pushbutton<br>Double speed<br>+ Aux functions                                    |

## Additional Features

|                     |   |
|---------------------|---|
| Emergency STOP      | 1 NO contacts for EMS + 1 magnetic key                        |
| Indication          | LED Indication for Battery LOW, Transmission and Error status |
| Address Code        | Unique Address Code to avoid interference                     |
| Antenna             | Internal Antenna in transmitter & receiver                    |
| Relay Assignment    | Configurable Relay assignment available                       |
| Auxillary Functions | Selector Switch / Toggle Switch/ Push Buttons /Rotary Switch  |

## Transmitter

|                           |                               |
|---------------------------|-------------------------------|
| Operating Frequency       | 433-434 Mhz                   |
| Channel Spacing           | 25 KHz                        |
| Modulation                | FM (4GFSK/2GFSK)              |
| RF Power Output           | 10 mW                         |
| Power Consumption         | 18 mA (Unidirectional)        |
| Standby Power Consumption | 1 mA                          |
| Battery Capacity and Type | 2 nos, AA size Alkaline, 3.0V |
| Operating Temperature     | -20°C to +70°C                |
| Weight                    | 500 gms (without battery)     |
| Dimensions (mm)           | 205 (H) X 75 (W) X 50 (B)     |
| Operating Range           | 100 meters                    |
| Protection Rating         | IP 65 IS/IEC 600529:2001      |

## Technical Specification

|   |                             |
|---|-----------------------------|
| Number of commands in Transmitter unit <b>IMPACT 501T</b> | Upto 12 + Start/Stop +Alarm |
| Number of commands in Transmitter unit <b>IMPACT 502T</b> | Upto 20 + Start/Stop +Alarm |
| CRC   | 32 Bit                      |
| Response Time   | <50 ms                      |
| Active Emergency Response Time                            | <50 ms                      |
| Passive Emergency Response Time                           | 1900 ms                     |

## Receiver

|                                 |                              |
|---------------------------------|------------------------------|
| Operating Frequency             | 433-434 Mhz                  |
| Channel Spacing                 | 25 KHz                       |
| RF Sensitivity                  | -117dBm at 0.6kBaud          |
| No of Relays <b>IMPACT 501T</b> | Upto 21 + 2 (Start/Alarm)    |
| No of Relays <b>IMPACT 502T</b> | Upto 21 + 2 (Start/Alarm)    |
| Relays                          | Resistive load: 5A at 250VAC |
| Power Requirements              | 48VAC - 230VAC               |
| Fastening                       | By means of Nuts & Bolts     |
| Operating Temperature           | -20°C to +70°C               |
| Weight                          | Approx 1.40 Kg               |
| Dimensions (mm)                 | 282 (H) x 220 (B) x 110 (W)  |
| Operating Range                 | 100 meters                   |
| Protection Rating               | IP 65 (NABL lab tested)      |



**CRANE CONTROL GEAR**



**POWER DISTRIBUTION**



**RADIO REMOTE CONTROLS**



**JOYSTICK CONTROLLER**



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H. O. Unit -I : C-15/16, Nand Jyot,  
Industrial Estate, Andheri-Kurla, Road,  
Mumbai - 400072 ,  
Tel : (022) 42469700-730,  
E-mail : sales@socgroup.in

Visit us at :  
[www.speedocontrols.com](http://www.speedocontrols.com)  
[www.socreremote.com](http://www.socreremote.com)  
[www.socjoystick.com](http://www.socjoystick.com)

Unit - II: Plot No. 4912, G. I. D. C.,  
Phase IV, Vatva,  
Ahmedabad - 382445  
Tel.: (079) 68169700/702/712,  
E-mail : [enquiry2@socgroup.in](mailto:enquiry2@socgroup.in)