

## 6 Models Available

Alpha 4008-2	8 double speed pushbuttons
Alpha 4008-3	6 double speed pushbuttons + 2 single speed pushbuttons
Alpha 4008-3S	6 double speed pushbuttons + 1 single speed pushbutton + 1 selector switch
Alpha 4012-2	6 double speed pushbuttons + 6 single speed pushbuttons
Alpha 4012-3	8 double speed pushbuttons + 4 single speed pushbuttons
Alpha 4012-3S	8 double speed pushbuttons + 3 single speed pushbuttons + 1 selector switch



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## Alpha 4000 Series Industrial Remote Control Systems

### SYSTEM SPECIFICATION

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#### Transmitter Unit

Frequency Range	PLL 433MHz
Transmitting Range	80 Meters (open areas)
Continuous Operating Time	90 Hours
Hamming Distance	≥ 4 + CRC8
Channel Spacing	25 K
Frequency Control	VTCXO (PLL)
Frequency Drift	< 5ppm @ -10 °C ~ 70 °C
Frequency Deviation	< 1ppm @ 25 °C
Spurious Emission	> 50dBc
Transmitting Power	~1.0mW
Emission	F1D
Antenna Impedance	50 Ω
Enclosure Rating	IP-66
Source Voltage	4.2VDC lithium / 1800mA
Current Drain	~20mA@3.7V
Continuous Operating Time	> 50 hours
Operating Temperature	-10 °C ~ 70 °C
Dimension	Alpha 4008 : 228 mm x 65 mm x 52 mm Alpha 4012 : 273 mm x 65 mm x 52 mm
Weight	Alpha 4008: 530g (with 1800mAh lithium battery) Alpha 4012: 600g (with 1800mAh lithium battery)

#### Receiver Unit

Frequency Range	PLL 433MHz
Channel Spacing	25 K
Hamming Distance	≥ 4 + CRC8
Frequency Control	VTCXO (PLL)
Frequency Drift	< 5ppm @ -10 °C ~ 70 °C
Frequency Deviation	< 1ppm @ 25 °C
Sensitivity	≤ -120dBm
Antenna Impedance	50 Ω
Data Decoder Reference	Quartz Crystals (PLL)
Responding Time	50 ~ 150 ms
Enclosure Rating	IP-66
Source Voltage	100 ~ 240VAC @ 50/60 Hz (standard equipped)
Power Consumption	MAX 32W@240VAC 50Hz
Operating Temperature	-10 °C ~ +70 °C
Output Contact Rating	250V @ 10A
Dimension	300 mm x 171 mm x 115 mm
Weight	4,500g (without output cable)

Note: Longer or shorter transmitting ranges are available upon request.

Note: Other types of source voltages are available upon request.



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# Alpha 4000

The A4000 is an advanced industrial remote control capable of a wide range of applications, such as: cranes, production machinery, automated machinery, facility control, etc.

## Professional and Intelligent Design

### Visualized Software

It allows you to set every function of your remote control via software. Based on the system type selected, you can create all kinds of combinations with the software to fit different working environments.



### 5 Status LEDs

The middle top LED shows the current status of the control, including errors, the other 4 LEDs can be used to show the status of assigned pushbuttons.

### Transmitter Shock Absorption

The shock absorbing rubbers on the four corners of the transmitter strengthen its shock absorption ability.

### Start-up Alternatives

The Alpha 4000 offers either On/Off key start or Infrared localised start.



### Electromagnetic Induction Charging

Electromagnetic induction charges the transmitter by simply placing it on the battery charger, no need to remove the battery or plug anything in.



### Chip Card - function set via chip card

- 1 Breakdown Recovery**  
If the remote control fails you simply take out the chip card and insert it into the chip card slot of another system, of the same type, to continue operating.
- 2 Same System Type Copy**  
Via the chip card programmer, if the same functions and settings are needed in the future, you only need to re-call the original file and correct/save the data onto the chip card.
- 3 Setting/Modification for any function**  
Remove chip card and modify the desired function via software.

### Changeable Relay Cards

The Alpha 4000 receiver is designed with changeable relay cards which allow the expansion or modification of functions setting simply by changing relay cards.

### User-Selectable RF Channels

Both receiver and transmitter are equipped with the PLL (Phase Lock Loop) synthesized RF module with user-selectable RF channels (narrow band FM). The frequency is adjustable and can be corrected manually in case of any frequency drift.



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