

## 4 Models Available

Alpha 3000F2	(6) two-speed pushbuttons + (1) one-speed AUX pushbutton
Alpha 3000D2	(10) two-speed pushbuttons + (1) one-speed AUX pushbutton
Alpha 3000F3	(6) three-speed pushbuttons + (1) one-speed AUX pushbutton
Alpha 3000D3	(10) three-speed pushbuttons + (1) one-speed AUX pushbutton



## Alpha 3000 Series Specifications

Transmitter		Receiver Unit	
Frequency Range	301 & 433 MHz	Frequency Range	301 & 433 MHz
Transmitting Range	100 meters (300 feet)	Demodulation	Narrow Band FM
Hamming Distance	≥ 6	Frequency Control	Synthesizer(PLL)
Channel Spacing	25KHz	Frequency Drift	< 5ppm@ -25°C ~ +75°C (-13°F ~ 158°F)
Frequency Control	Synthesizer (PLL)	Frequency Deviation	< 1ppm@ 25°C (77°F)
Spurious Emission	- 50dB	Sensitivity	- 122dBm
Transmitting Power	1.0mW	Antenna Impedance	50 ohms
Antenna Impedance	50 ohms	Data Decoder Reference	Quartz Crystals
Enclosure	IP-66	Responding Time	64~100mS
Source Voltage	DC 6.0V	Enclosure	IP-66
Current Drain	~ 15mA @ 6V	Source Voltage	AC 120V/220V/380V/415V @ 50/60 Hz.
Operating Temp.	-10 °C ~ +70°C (+14°F ~ +158°F)	Power Consumption	11VA
Dimension : Alpha 3000F	230 x 78 x 47 (mm) 9.0 x 3.0 x 1.85 (inch)	Operating Temp.	-10 °C ~ +70°C (+14°F ~ +158°F)
Alpha 3000D	292 x 78 x 47 (mm) 11.5 x 3.0 x 1.85 (inch)	Output Contact Rating	250V @ 10A
Weight : Alpha 3000F	600g (include batteries) 21oz (include batteries)	Dimension (All Models)	425 x 245 x 130 (mm) 16.7 x 9.6 x 5.1 (inch)
Alpha 3000D	730g (include batteries) 25.7oz (include batteries)	Weight (All Models)	8.0kgs 17.7lbs

Distributed by:

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# 2 & 3-Speed ALPHA 3000 SERIES

## Industrial Radio Remote Control Systems

Industry's Best 2 & 3-Speed Pushbuttons  
Advanced "RISC" microprocessors  
Advanced System Software  
Metal Receiver Enclosure  
100% Water-Resistant  
Ultra Power Saving  
Durable & Rugged  
Reliable & Safe





# Unparalleled Performance!

## Advanced System Software

The Alpha 3000 series utilizes advanced RISC microprocessor control with highly evolved system software that has redundant error checking and correcting capabilities to ensure 100% error-free encoding, transmitting, receiving, decoding and control of all output relays. This highly evolved system software includes CRC (Cyclical Redundancy Check) and Hamming Code (Error Recovery).

## Safe and Reliable Operation

To ensure maximum operating safety the system incorporates numerous important safety features, which include transmitter pushbutton fault-detection → visual warning → auto-shutoff, transmitter low-voltage detection → visual warning → auto-shutoff, receiver fault-detection → auto-shutoff, and receiver MAIN relay auto-disconnect when the system is in sleep mode, radio interference, system out of receiving range, and when transmitter low-voltage condition is detected.

## Secure Operation

Both transmitter and receiver utilize advanced 16+1 bit microprocessor control. The availability of 65,536 sets of unique ID code + 63 distinct RF channels ensure that only commands from a matching control transmitter can be carried out, reducing the risk of interference from outside sources.

## Safety MAIN Relay Circuits

For added safety the receiver system utilizes a special "Safety Relay" for the MAIN relay circuits. If the receiver MAIN relay is defective (example: fails to open or close during operation or not responding to a "Stop" command) a fault will be detected and the system will be shut down immediately to avoid possibility of any accidents occurring.

## Ultra Power Saving Circuits

The transmitter utilizes advanced power-saving circuits providing more than 120 hours of continuous operation between battery replacements using just four (4) off-the-shelf "AA" alkaline batteries. The extremely long battery life eliminates the need for frequent replacing and recharging of batteries.

## Industry's Best 2 & 3-speed Pushbuttons

Custom in-house designed 2 and 3-speed pushbuttons are extremely durable and reliable for a minimum of one million press cycles. Unlike most 2 and 3-speed pushbuttons available from other radio control manufacturers, these pushbuttons are easily manipulated even when the operator is wearing gloves. The snap-action steps provide positive tactile feedback to the operator.



## 30 User-Selectable RF Channels

The receiver and transmitter are equipped with PLL (Phase Lock Loop) synthesized RF module with 30 sets of user-selectable RF channels (narrow band FM) adjusted via simple dip-switch settings.

## Durable and Rugged Transmitter

The transmitter enclosures are constructed from industrial strength composite materials (Nylon + Fiberglass) that resist cracking and deformation commonly occurred from frequent drops and long term exposure to heat, sunlight and harsh environments.

## 100% Sealed Enclosure

Both transmitter and receiver enclosures are fully sealed and impervious to dust, water, oil, grease, acids, alkaline, heat and sunlight, which provide trouble-free operation in high moisture environments and outdoor applications. The receiver enclosures are fully painted inside and out with stainless steel hinges and key lock.



## Modular Receiver

The modular design of the receiver provides easy service maintenance of all internal components. The RF module, decoding module, upper/lower relay boards and power transformer are all placed independently inside the metal enclosure.

## Full Compliance

The Alpha 3000 series are designed and manufactured in accordance with FCC Part-15 Rules, European Directives (CE/CB), Industry Canada Specifications (IC) and ISO 9001 guidelines. No site License is required.

