

WILLIAMS WIRELESS Remotes

INDUSTRIAL RADIO REMOTE CONTROL SYSTEMS

ALPHA 3000 SERIES

Industry's Best 3-Speed Pushbutton

Highly Evolved System Software

Advanced "RISC" Architecture

Extended Battery Life

Durable & Rugged

Safe & Reliable

Metal Enclosure

Water-resistant



Affordable 3-SPEED Remote!

Unparalleled



Advanced System Software

The Alpha 3000 series utilizes advanced "RISC" microprocessors with highly evolved software that has redundant error checking and correcting capabilities to ensure 100% trouble-free transmission, decoding, and control of all output relays. Our advanced system software includes CRC (Cyclical Redundancy Check) and Hamming Codes (Error Recovery). Drop the word code and capitalize the words.

Safe & Reliable Operation

To ensure maximum safety and reliability the Alpha 3000 incorporates the following features; Transmitter; pushbutton fault-detection → visual warning → auto-shutoff. Receiver; fault-detection → auto-shutoff, and Receiver Main auto shutoff when the system is in sleep mode (programmable) or when Transmitter low voltage is detected.

Secure Operation

Both transmitter and receiver utilize advanced 16+1bit microprocessor control. The availability of 65,536 sets of unique ID codes ensure that only commands from a matching transmitter can be carried out. Both the receivers and transmitters have adjustable ID codes. For added safety each system installed in your plant will operate on one of 30 distinct channels (frequencies) further reducing the risk of interference from outside sources.

Safety Main Relay Circuit

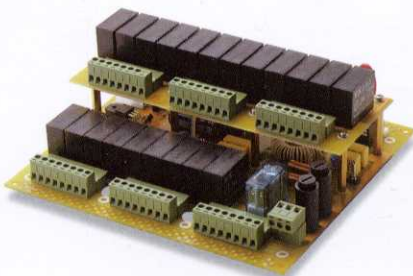
For added safety our advanced design utilizes a special Safety Relay for the Main EMS circuit. If the receiver MAIN relay is defective (Example: Fails to open in response to a Stop command) a fault will be detected and the system will shutdown (open) all output relays immediately.

30 User-Selectable Channels

Receivers are equipped with our custom narrow band FM, Phase Lock Loop (PLL) synthesized RF module with 30 sets of user selectable FM channels (frequencies). A chart is provided on the face of the RF module indicating the dip switch setting for any of the available channels. Only receivers are channel adjustable, transmitters are fixed.

Durable and Rugged Transmitter

Transmitter enclosures are constructed of composite materials (Nylon + Fiberglass) that resist cracking or deformation. The transmitter enclosures are totally sealed and impervious to dust, water, oil, grease, most acids, alkaline, heat, sunlight, IP66 rated.



WILLIAMS WIRELESS Remotes

Visit our website at : www.williamsyrless.com

d Performance!



Industry's Best 3-Speed Pushbutton

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

100% Sealed

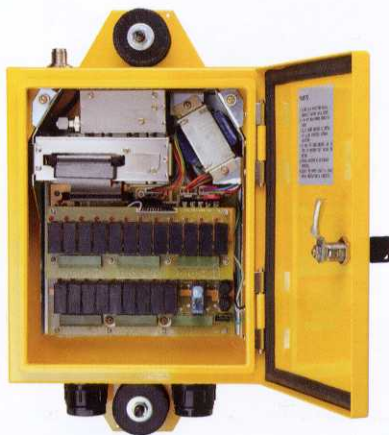
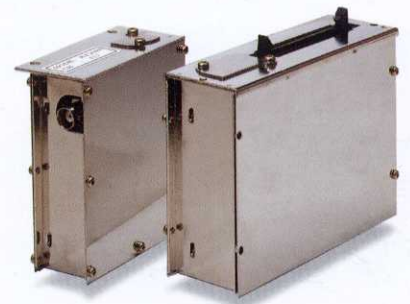
Both transmitter and receiver enclosures are 100% sealed ensuring trouble free operation in high moisture environments and outdoor applications, both IP66 rated. To further enhance reliability the receiver enclosure is fully painted inside and out, the door is fully sealed with a gasket and the hinges and key lock are stainless steel.

Our Longest Battery Life

Our Alpha 3000 transmitters were designed with battery conservation circuitry providing 250 hours of continuous operation using four off-the-shelf "AA" alkaline batteries. Our extremely long battery life eliminates the need for expensive proprietary batteries and chargers.

Modular Receiver

The modular design of our receiver makes servicing the components a snap. The RF receiving module, decoder module, upper/lower relay boards, and power transformer are all placed independently inside the metal enclosure. The external 1/4 wave antenna screws on from the outside and is equipped with internal quick disconnect fittings.



Full Compliance

The Alpha 3000 Series are designed and manufactured in accordance with FCC Part-15 Rules, European Directives (CE/CB) and Industry Canada (IC); designed and manufactured by an ISO 9001 certified company.

One Year Guarantee

Warranted against defects in materials and workmanship for one year from the date of purchase, parts only, contact the factory for details.



<http://www.alpha3000.com>

ALPHA 3000 SERIES

6 Models Available

Alpha 3000F2	Six 2-speed pushbuttons + one 1-speed START/AUX pushbutton + EMS.
Alpha 3000F3	Six 3-speed pushbuttons + one 1-speed START/AUX pushbutton + EMS.
Alpha 3000D2	Ten 2-speed pushbuttons + one 1-speed START/AUX pushbutton + EMS.
Alpha 3000D2-A	Six 2-speed pushbuttons + four 1-speed aux. pushbuttons + one 1-speed START/AUX pushbutton + EMS.
Alpha 3000D3	Ten 3-speed pushbuttons + one 1-speed START/AUX pushbutton + EMS.
Alpha 3000D3-A	Six 3-speed pushbuttons + four 1-speed aux. pushbuttons + one START/AUX pushbutton + EMS.



Alpha 3000 Series Specifications

Transmitter		Receiver Unit	
Frequency Range	301 & 433MHz	Frequency Range	301 & 433MHz
Transmitting Range	300 feet*	Demodulation	Narrow Band FM
Hamming Distance	≥6	Frequency Control	Synthesizer (PLL)
Channel Spacing	25KHz	Frequency Drift	< 5ppm @ -13°F ~ 158°F
Frequency Control	Quartz Crystals	Frequency Deviation	< 1ppm @ 77°F
Spurious Emission	-50dB	Sensitivity	-122dBm
Transmitting Power	0.3mW	Antenna Impedance	50ohms
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	~8mA @ 6V	Source Voltage	AC 120V/220V/380V/415V @ 50/60 Hz.
Operating Temp.	-13°F ~ 158°F	Power Consumption	11VA
Dimension : Alpha 3000F	9.05 x 3.05 x 11.9 (in)	Operating Temp.	-13°F ~ 158°F
Alpha 3000D	11.4 x 3.05 x 11.9 (in)	Output Contact Rating	250V @ 10A
Weight : Alpha 3000F	21oz (include batteries)	Dimension (All Models)	16.7 x 9.6 x 5.1 (in)
Alpha 3000D	25oz (include batteries)	Weight (All Models)	17.68lb

*Note: Optional high gain external antenna available at additional cost.

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