

# 17 MODELS

FOMOTECH INTERNATIONAL CORP.

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| Alpha 600 Series | Alpha 600XS Series | Description  |
|------------------|--------------------|--|
| α 604A           | α 604AS            | (4) single speed pushbuttons   |
| α 604B           | α 604BS            | (4) double speed pushbuttons   |
| α 607A           | α 607AS            | (7) single speed pushbuttons   |
| α 607B           | α 607BS            | (6) double speed pushbuttons + (1) single speed pushbutton                               |
| α 607AT          | α 607ATS           | (6) single speed pushbuttons + (1) SELECT I/II pushbutton                                |
| α 607BT          | α 607BTS           | (6) double speed pushbuttons + (1) SELECT I/II pushbutton                                |
| α 608A           | α 608AS            | (8) single speed pushbuttons   |
| α 608B           | α 608BS            | (6) double speed pushbuttons + (2) single speed pushbuttons                              |
| α 608AT          | α 608ATS           | (7) single speed pushbuttons + (1) SELECT I/II pushbutton                                |
| α 608BT          | α 608BTS           | (6) double speed pushbuttons + (1) single speed pushbutton + (1) SELECT I/II pushbutton  |
| α 612A           | α 612AS            | (12) single speed pushbuttons  |
| α 612B           | α 612BS            | (11) single speed pushbuttons + (1) SELECT I/II pushbutton                               |
| α 612C-1         | α 612C-1S          | (6) double speed pushbuttons + (6) single speed pushbuttons                              |
| α 612C-2         | α 612C-2S          | (8) double speed pushbuttons + (4) single speed pushbuttons                              |
| α 612D           | α 612DS            | (10) double speed pushbuttons + (2) single speed pushbuttons                             |
| α 612E-1         | α 612E-1S          | (6) double speed pushbuttons + (5) single speed pushbuttons - (1) SELECT I/II pushbutton |
| α 612E-2         | α 612E-2S          | (8) double speed pushbuttons + (3) single speed pushbuttons - (1) SELECT I/II pushbutton |

Alpha 600 Series



Alpha 600XS Series



## Alpha 600 & 600XS Series Industrial Radio Remote Control Systems



### SPECIFICATIONS

#### Transmitter Unit

Frequency Range : 301, 433 MHz(Alpha 600 series);  
433MHz(Alpha 600XS series)

Transmitting Range : 100 meters

Hamming Distance : 6

Channel Spacing : 25KHz

Frequency Control : VTCXO (PLL)

Frequency Drift : < 5ppm @ -10°C ~ +70°C

Frequency Deviation : < 1ppm @ 25°C

Spurious Emission : -50dB

Transmitting Power : 0.1mW - 10mW

Emission : F1D

Antenna Impedance : 50 ohms

Enclosure Rating : IP-65

Source Voltage : 3.0V ("AA" alkaline batteries x 2)

Operating Temperature : -10°C ~ +60°C  
(> 80°C high temperature protection)

Transmitting power : <30mA@3.5V

Low Voltage : 2.2V-2.0V(standard); 2.2V-1.8V(ENISO 13849-1)

Operating time : >consecutive 100hrs @batteries full(2000mA),  
band 301,433MHz, transmitting power 1mW

Dimension (α 604 Models) : 140 x 68 x 30 mm  
(α 607/608 Models) : 189 x 68 x 30 mm  
(α 612 Models) : 235 x 68 x 30 mm

Weight (α 604 Models) : 220g (batteries incl.)  
(α 607/608 Models) : 280g (batteries incl.)  
(α 612 Models) : 350g (batteries incl.)

#### Charger Unit

Dimension : 120mm x 105mm x 105mm

Voltage : 100~240V 50/60Hz

Power Consumption : max 10 Watt

Operating Temperature : 0°C ~ +40°C

Heat Ventilation : temperature control fan

Charging Current : about 600mA @3V

Charging Time : about 3hrs @2000mA

Charging Detection : -ΔV + temperature

#### Receiver Unit

Frequency Range : 301, 433 MHz(Alpha 600 series);  
433MHz(Alpha 600XS series)

Channel Spacing : 25KHz

Hamming Distance : 6

Frequency Control : VTCXO (PLL)

Frequency Drift : < 5ppm @ -20°C ~ +70°C

Frequency Deviation : < 1ppm @ 25°C

Sensitivity : < -115dBm

Antenna Impedance : 50ohms

Data Decoder Reference : Quartz Crystals

Responding Time : 40ms (Standard)

Enclosure Rating : IP-65

Source Voltage  
α 604/607/608: DC12-24V.AC48V.AC110V.AC230V.AC240V.AC380V  
Full voltage module: AC100-240V @50/60Hz  
α 612: DC12-24V. AC25/35/42/50V. AC110V/240V. AC380-460V @50/60Hz

Power Consumption : α 604:8W; α 607/8:10W; α 612:15W.

Operating Temperature : -10°C ~ +70°C

Output Contact Rating : 250V @ 10A

Output MAIN Relay Rating : 250V @ 6A

Dimension α 604-608 : 310 x 134 x 72 mm  
α 612 : 300 x 230 x 86 mm

Weight α 604 : 1,625g (output cable incl.)  
α 607/608 : 2,000g (output cable incl.)  
α 612 : 3,400g (output cable incl.)

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# Alpha 600,600XS Series

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## Visualized Software

This series allows you to set all radio functions using software and a dedicated programmer linked to your USB port.



## Adjustable PLL RF Module

Both the transmitter and receiver are equipped with PLL (Phase Lock Loop) synthesized RF module with 68 user-selectable RF channels (narrow band FM).

## Alpha 600XS, EN ISO 13849-1, PLd compliant

Dual independent decoder CPU circuits, including feedback circuit to detect dual MAIN relays. Newly designed, EN60947 compliant, Emergency Stop ensures correct operation under any conditions – even if the contacts are corroded shut or sticking.



## Electromagnetic Induction Charge

The undisclosed metal and sensor type battery charger provides immediate charging simply by placing the transmitter into the charging slot. Opening the battery cover to change the batteries is not needed. This design improves the transmitters structural strength and waterproof integrity prolonging its operational life. Available charging source voltage: 100~240VAC.



## Complete Auto-Test System

Multi auto-test functions are standard, including: receiver and transmitter low voltage test, warnings, auto shutdown, pushbutton breakdown test, main relay breakdown test...etc.

## Shock Absorbing Rubbers are available for transmitters

The transmitters shock absorbing rubbers, top and bottom, improve its ability to withstand shock and frequent dropping.

## Super Power Saving

The receiver is programmed to drop (open) the Main relay after several minutes of inactivity, this auto shutdown time is user-selectable. The intermittent data transmission is designed to save power so fully charged batteries can be used for over 100 consecutive hours.

## Waterproof and Durable

The transmitter and receiver enclosures are constructed from high-grade composite materials that resist cracking and deformation from frequent drops and long-term exposure to heat, sunlight and harsh environments. The enclosures are fully sealed and impervious to dust, water, oil, acids, alkaline, heat and sunlight, which provide trouble-free operation for high moisture environments and outdoor applications.

