

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



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

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-66
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(EN ISO 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.)

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-66
Source Voltage	: α 604/607/608: DC12-24V AC48V AC110V AC230V AC240V AC380V Full voltage module AC100-240V @50/60Hz α 612: DC12-24V AC25/30/42/50V 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	: α604-608 : 310 x 134 x 72 mm α612 : 300 x 230 x 86 mm
Weight	: α604 : 1,625g (output cable incl.) α607/608 : 2,000g (output cable incl.) α612 : 3,400g (output cable incl.)

Alpha 600 & 600XS Series

Industrial Radio Remote Control Systems





Alpha 600,600XS Series

FOMOTECH
INTERNATIONAL CORP.

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).

FOMOTECH

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.

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.

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.

Shock Absorbing Rubbers are available for transmitters

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

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.

