



➤ GENESIS **move**: INNOVATION AND REVOLUTION

A multifunction radio control that unites the fail-safe PAIL and the innovative GENESIS to create a revolutionary concept in radio remote control: **move** is a highly configurable universal platform with new generation electronics for improved function sensitivity, response time and safety level.

Control of digital on/off functions, proportional pwm, power supply and voltage. CANbus protocol - RS422 - RS485. Graphic display for data feedback.

➤ SOLID AND ERGONOMIC

Attractively designed, robust and watertight casing. Ergonomic rubberised handles for excellent grip. Practical solid handrest for smooth manoeuvring of controls.

➤ TECHNICAL SPECIFICATIONS

Parameters common to transmitter and receiver units:

Working frequency Multiband Full Duplex, 72 channels - ISM band

Hamming code distance: > 4

Commands response time: from 20 ms to 80 ms depending on configuration

Active emergency stop command response time: from 20 ms to 80 ms depending on configuration

Passive emergency command response time: 1 s

Stop control classification: Category 4 PL-E (ISO 13849-1) and SIL 3 (EN62061)

Joystick controls (UMFS) classification: Category 3 PL-D and SIL 2

Working range: 100 m

Working/storage temperature: -20°C / +70°C

➤ RECEIVER

Radio frequency receiver unit: Single Chip

Antenna: dedicated multiband

Safety relay contacts capacity: 8A (DC1/AC1) / 115V

Commands relay contacts capacity: 4A (DC1/AC1) / 115V

Stop relay contacts capacity: 4A (DC1/AC1) / 115V

Power supply: from 12 V_{DC} to 115 V_{AC} (depending on model)

Watertight casing for external installation: Nylon PA6 FG, Protection grade IP65

Dimensions RubyBox move: 266×169×89 mm (LxWxD)

Dimensions EcoBox move: 177×123×50 mm (LxWxD)

➤ TRANSMITTER

Modulation: FM – GFSK

Radio frequency output power: 1 to 10 mW

Oscillator: digital synthesising PLL

Antenna: dedicated multiband

Power supply: 3.6 V_{DC}

Electricity consumption: max 50 mA

Batteries: Integrated 3×1,2V. Operating life 30 hours

Batteries: External LI-ION 7,4 V. Operating life 20 hours

Low battery warning: 30 minutes

Casing protection grade: IP 65 Nylon PA6 FG

Dimensions: GENESIS 310×193×163 mm.

PAIL 200×135×130 mm (LxWxD)

Weight: GENESIS 1580 g. PAIL 930 g.

(depending on configuration)



➤ RELIABLE AND ROBUST

The Genesis radio remote control can be used over a vast range of sectors where guaranteed safety and reliability must combine with high level innovation and multifunctionality. From traditional on-off digital controls for industry and automation to proportional movements for lifting people and merchandise. Suitable for use in a wide range of sectors from forestry and maintenance to materials handling and logistics. Its comprehensive functionality also makes it ideal for the mining and quarrying industries where shredders, drills and crawler vehicles are used. Perfect for aerial platforms and eco-friendly compactors as well as sea and airport operations - its applications are limitless.

➤ 7-segment large digital readout:

- clear and user-friendly
- very low energy consumption
- economical

Graphic display:

- with 16x16 pixel icons or full screen at 128x64 pixels
- 4 sets of digits, 2 of which are programmable (Cyrillic, Greek, etc.)
- 2 vertical or horizontal led bars for immediate event recognition

Receiver:

- 433/869 MHz dual band continuous sequential scanning
- also available at 915 MHz for the United States and Canada
- CANopen connectivity (with over 50 basic profiles)
- RS422 and RS485 connectivity for PLC and automation

Outputs:

- digital on/off
- voltage (eg, ratiometric, Danfoss valve)
- current 0-20 mA
- PWM power driver

Inputs:

- digital on/off
- analogue & current voltage modules



➤ RECEIVERS

Receivers in RubyBox or EcoBox both with internal fitted antenna.



➤ TWO OPTIONS FOR TRANSMITTER POWER:

Wireless battery charger

When the transmitter is placed on the dock the internal batteries are charged automatically by inductive energy transfer. No electric, metal or wire connections necessary. (Pictured above left)

External rechargeable batteries

This innovative non-stop system guarantees 24/7 operation even during battery replacement. Two external LI-ION batteries (widely available) and battery charger supplied. (Pictured above right)

