

MOVE Series

Technical sheet



Innovation and revolution

REMdevice uses the multifunction MOVE platform. The maximum configurability according to customer's specifications with BRICK, PAIL and GENESIS transmitters.

Technical features

- Control Commands: on/off - CANbus - PWM - voltage/current - RS 422/485
- Parameters common to both transmission and receiver units:
Full-Duplex multi-band operating frequency, 72 channels - ISM band
- Hamming code distance > 4
- Response time to commands: from 20 ms to 80 ms according to configuration
- Active emergency stop command response time: 20 ms
- Command passive emergency response time: 1 s
- The stop command is rated PL-E cat. 4 (ISO 13849-1) and SIL 3 (EN62061)
- The joysticks (UMFS) are rated PL-D cat. 3 and SIL 2
- Range: about 100 m
- Operating and storage temperature: -20°C / +70°C
- Operating frequency:
Dual-band 433/869 MHz with continuous sequential scanning, 72 channels
915 MHz version for the American and Canadian markets
418 MHz version for the Chinese market
- Connectivity CANopen (with over 50 base objects) for automotive applications
- Connectivity RS422 and RS485 for PLC and automation
- All types of outputs: digital (on/off) - voltage (radiometric, danfoss, etc.)
- PWM power current - current 4-20 mA
- Type of inputs: digital (on/off)
analogue in tension (0-10V)
analogue in current (4-20mA)

Transmitter units

- Modulation: GFSK Manchester encoding
- Radiofrequency emitting power: 1÷10 mW
- Oscillator: PLL digital synthesizer
- Antenna: dedicated multi-band
- Power Supply: 3.6 Vdc
- Current demand: max. 50 mA
- Accumulators: built in 3X1.2V = up to 40 hours' autonomy
- Battery low warning time: 30 minutes
- Casing protection grade: IP 65 PA6 FG Nylon PA6
- Dimensions (LxHxD) GENESIS 310X163X193 mm - PAIL 200x130x135 mm - BRICK 97x44x210 mm - T3, T5, T7 83X42X174 mm
- Weight (variable according to configuration): GENESIS 1580 g - PAIL 930 g - BRICK 470 g - T3, T5, T7 350 g

Options

- LCD 1.3" display
- 1.6" and 3.2" graphic display
- Control cable (radio exclusion)
- External antenna



Receiver units

- Radiofrequency receiver: Single Chip
- Antenna: dedicated multi-band
- Safety relay contact capacity: 8A (DC1/AC1)* / 115V
- Command relay contact capacity: 4A (DC1/AC1) / 115V
- Stop relay contact capacity: 4A (DC1/AC1) / 115V
- RUBYBOX move
 - No. of on/off contacts: 16 + START + 2 STOP + CLAX + LAMP
 - No. of digital inputs: 2
 - No. of optional modules (4 for each RUBYBOX): 12 + 1
- DIN move
 - No. of on/off contacts: 22 + START + 2 STOP + CLAX
 - No. of digital inputs: 2
 - No. of optional modules (2 for each Modulbox): 12 + 1
- ECOBOX move
 - No. of on/off contacts: 2 + 2 STOP
- Available optional modules:
 - module with No. 8 on/off contacts
 - module with No. 8 PWM or 0-10V or 4-20mA outputs
 - module with No. 8 digital inputs
 - module with No. 6 analogue or 0-10V or 4-20mA inputs
 - serial communication module
 - special and customised modules
- Power Supply: 12-24 Vdc $\pm 25\%$ / 24-115 Vac $\pm 10\%$
- Waterproof Casing for Outdoor use: Nylon PA6 FG, Protection Grade IP65
- Dimensions (LxHxD): RUBYBOX move 166 X 279 X 91 mm
- Dimensions (LxHxD): ECOBOX move 129 X 178 X 51 mm
- Dimensions (LxHxD): DIN move 158 x 75 x 90 mm

Available receiver units:

DIN move, RUBYBOX move, ECOBOX move



Wireless Charging System

REMdevice transmitters (T Series excluded) are equipped with the exclusive **Patented** wireless induction charging system.

Reference legislation

Safety EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Health EN 62479:2010

EMC EN 61000-6-2:2005
EN 61000-6-3:2007 + A1:2011

Radio ETSI EN 300 220-1 V3.1.1 Final Draft
ETSI EN 300 220-2 V3.1.1 Final Draft
ETSI EN 301 489-1 V2.1.1
ETSI EN 301 489-3 V2.1.0 Draft

FCC Rule Parts 15C

IC RSS-247 Issue 1
RSS-GEN Issue 4

China Radio Transmission Approval Certificate

Russia EAC-GOST Certificate

Machinery EN 60204-32:2008
(as applicable) EN 13557:2003 + A2:2008
UNI EN ISO 13849-1:2016

Directives

- Radio Equipment Directive (RED) 2014/53/EU
- Machinery Directive 2006/42/CE (as applicable)



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