

# Joystick radio remote control n-Joy



Easily removable battery packs



Display version



## Joystick radio remote control Type n-Joy

### Main features

n-Joy radio remote control can be used in several different application fields (f.i. building cranes, hoists, operating machines, etc.).

n-Joy is a highly safe radio remote control, it presents emergency button and, by reception, two stop and circuit relays with double microprocessor.

The ergonomic and sturdy (IP65) transmitter is provided with removable battery packs, which can be easily inserted and removed. Moreover, it is equipped by a comfortable, stuffed, double-fastening belt.

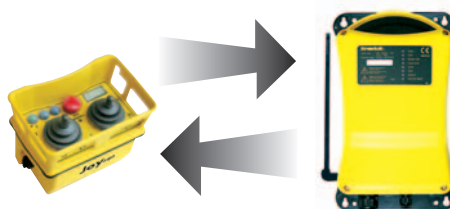
You can change frequency and automatic stop time through the transmitter control buttons, and turn the self-switching-off option on or off.

Moreover, some additional control elements like push buttons and selector switches can be installed on request.

The receiver is available in two versions: outdoor with 20 relays, in a IP65 plastic container, easy to be installed and with an external antenna; or even indoor for control boards, with 20 relays, not bulky and which can be installed on DIN rails and provided with an external antenna.

n-Joy is available with customized sticky labels and with advanced functions on request.

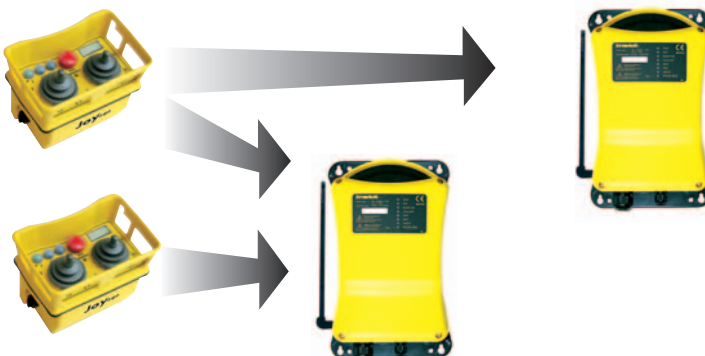
### Data - feed-back function



### Take - release function



### Master - slave function



## Versions

### Transmitter unit

Four versions are available to satisfy several different application needs:

- n-Joy 32 (3 axes 2 auxiliaries)
- n-Joy 35 (3 axes 5 auxiliaries)
- n-Joy 42 (4 axes 2 auxiliaries)
- n-Joy 45 (4 axes 5 auxiliaries)

### Battery charger

Practical and ergonomic, it is available in 2 different types:

- in alternating current (220 V a.c.)
- in direct current (12 V d.c.)

### Receiver

Sturdy and reliable, it is available in 2 possible versions:

- Outdoor receiver: with 20 relays, it is contained into a IP65 plastic case and it is easily installable.
- For control board: with 20 relays, it can be installed on DIN rails.

## Main technical features

Operating frequency	433,050 ÷ 434,790 MHz
Number of radio channels	33
Distance of Hamming	6
Error check	16-bit CRC code
Address codes	2 <sup>48</sup>
Maximum number of commands	20 + start/stop
Command response time	65 ms
Active emergency response time	65 ms
Automatic emergency response time	1,6 sec. (adjustable 0,3÷1,8 sec.)
Operating range	80 m
Working temperature range	-10°C ÷ +55°C

## Norms and Directives

CEPT/ERC/REC 70-03  
 ETSI 300 220-1, 300 220-2 and 300 220-3  
 ETSI 301 489-1 and 301 489-3  
 EN 55022  
 EN 60529  
 EN 60204-32  
 2006/95/CE Low Voltage  
 2004/108/CE EMC Compatibility  
 2006/42/CE Machines  
 99/05/CE R & TTE  
 Mark **CE**

## Dimensions



## Transmitter

R.F. Power	≤ 10 mW ERP
Antenna	internal
Power supply	3,6 Vdc nom. (3,1 V min. ÷ 5 V max.)
Power consumption	65mA max.
Accumulators	Battery pack Ni-Mh
Continuous operating autonomy	≥ 10 Hours
Case	Nylon-glass
Protection degree	IP65
Weight	1,1 kg

## Outdoor and indoor receiver

Sensitivity	-110 dBm	
Antenna	external	
Power supply		
	Outdoor	48 Vac 12/24 Vdc
	Indoor	24 Vac 12/24 Vdc
Command relay load		3A max - 48 Vac
Stop relay load		4A max - 48 Vac
Case		ABS
Protection degree		
	Outdoor	IP65
	Indoor	IP20