



# MIA

handheld radio control

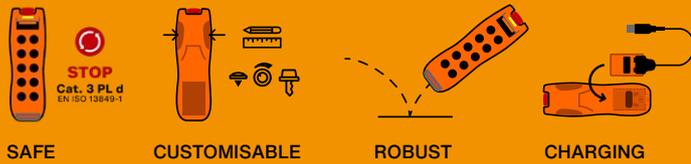
MIA is the ELCA push-button panel for the radio control of industrial lifting and handling machines with a high degree of safety.

The maximum configuration includes mushroom start and stop buttons (PL d), 23 digital controls (10 double-release buttons and 2 single-release buttons, toggle switch and potentiometer for proportional control).

Compact, light-weight, ergonomic. Interchangeable lithium battery and low-consumption electronics permit up to 20 hours of continuous use (luminous and acoustic notice of low residual capacity).

Innovative battery with integrated charging electronics connected directly to the "ELCA-CLIP" power supply cable; 4 hours for complete charging (15 minutes for 3 hours of autonomy). The optional cable with USB terminal can be used with portable battery chargers.

The MIA push-button panel resists impacts and harsh conditions of use: case made of ABS, IP65, compensation valve. External housing for extra protection (optional).



The two-way system provides up to 4 input signals to the receiver connected to the machine with status display leds.

Also available in a version with a display and 8 main double-release control buttons. Electronic activation key with customisable code.

Programmable automatic shutdown: 2/5/10'.

The transmitter is easy and fast to replace without having to repeat the settings: the univocal code and set functions are stored in a removable hardware key housed in the accessible water-tight battery compartment.

When turned on, the transmitter automatically selects the first free frequency that is available to guarantee the best signal coverage in any working situation.

The "Function" key permits programmable functions (e.g. hold of any output and combined functions, such as "Master-Slave", "Take-Release" and "Tandem").

Every MIA radio control includes: transmitter unit, receiver unit (AR E MIDI / AR E FLEXI), rechargeable battery, ELCA-CLIP USB power supply, shoulder strap, user manual.



scale 1:1

dimensions: L72xH235xP60 mm  
weight: 390 g

## Technical data

ELECTRONIC E: E1 E2 E29

ISM band work frequency	433,100 - 434,775 MHz	868,0125 - 870,000 MHz	915 - 928 MHz
Mode of transmission	LBT / FHSS	FHSS	FHSS
Working temperature	-25 / +55 °C		
Operating range	150 m		
Safety functions (according to EN 13849-1):			
- Stop protection	PL d		
- Protection from unintended movements from the rest position (UMFS)	PL c		

## Transmitter

MIA

Antenna	incorporated
Power supply	3.7 V lithium polymer battery pack
Current draw	< 45 mA
Absorbed power	< 0,15 W
RF emission power	< 10 mW ERP
1st battery low warning (red LED turns on)	Up to 1 hour of autonomy
2nd battery low warning (red LED flashes quickly)	Up to 5 minutes of autonomy
3rd battery low warning (horn sound)	100 seconds of autonomy
Autonomy with battery charged at 20°C	approx. 20 hours
Protection degree	IP65
Dimensions	72x235x60 mm
Weight	390 g

## Receivers

AR  
E MIDI A



AR  
E MIDI SW

AR  
E FLEXI A



AR  
E FLEXI SW

Power supply	24-230 Vac ~50/60 Hz	12-24Vdc	48/55/110/230 Vac ~ 50/60 Hz	12-24 Vdc
Protection degree	IP65		IP65	
Dimensions (mm)	152x152x75		133X256X88	
No. of available controls	up to 12 digital	up to: - 12 digital + 3 proportional - 4 digital feedback inputs	up to: - 16/24 digital - 16 digital + 6 proportional - optional expansion board CanOpen, EtherNet/IP, PROFINET, PROFIBUS communications - 4 digital feedback inputs	



**Optional accessories**  
Stainless steel wall support



ELCA srl  
Via del Commercio, 7b  
36065 Mussolente (Vicenza) ITALY  
Tel. +39.0424.578500 - Fax +39.0424.578520  
info@elcaradio.com - www.elcaradio.com

