PROFESSIONAL RADIO REMOTE CONTROL

WAVE2
M880

IMET
RADIO REMOTE CONTROL

APPLICATIONS

EOT / Gantry / Jib Cranes

Hoists / Winches

Electromagnets

Construction Cranes

Concrete Mixers

Dust Supression Sprayers

Container Loaders

Recovery Vehicles

Conveyor Belts

WAVE2 L
Weight Dimensions
445 g   75 x 43 x 245 mm

WAVE2 S
Weight Dimensions
375 g   75 x 43 x 180 mm

OPTIONS

DATA FEEDBACK
Data feedback on 64X102 pixels graphic display and 4 Leds.

TORCH
Keypad illumination for operations in the darkness or torch.
Can be combined with a light sensor.

I-READY
An Infrared directional START operation guarantee the right machine
has been picked up.

MTRS (MULTI TRANSMITTER RECEIVER SYSTEM)
It allows the classic Tandem, Catch-Release, Master-Slave working
modes and many other configurations demanding the logging In and
logging Out capability.

ENABLING SWITCH
The "enabling switch" is a special component that improves safety
of machinery operating in hazardous areas thanks to its design that
determines if the user is conscious. This 3 positions device activates
a machine or a function only when it is at position 2 meaning the
operator is present and vigilant. Applicable Standards are:
EN60947-5-1, EC60947-5-1, UL508, CSA C22.2 No.14.

PITOOL
This device allows to interface the transmitting and receiving units
to a PC for parameter setting and diagnosis purpose.

DETAILS

STATUS LEDs
Colored LEDs report about the status of the
radio link, the battery charge level and make
the diagnosis of anomalies.

PIN CODE
Start PIN code can be programmed to restrict
the use to authorized personel.

LEGENDS
Clear and wide pushbutton legends, with
the possibility of having fully customized
symbols.

STOP
Mushroom head STOP button featuring
Functional Safety level PLe/SIL3/Cat4.

CARRYING BELTS
Comfortable carrying belts.

BATTERY CHARGER BATTERIES
Fast charger and extractable rechargeable
Li-ion batteries for extra long duration.

SLEEVE
Represents an additional protection that
facilitates the use of your WAVE2 even in
extreme working conditions, but without
altering its ergonomic shape.

BIG CHOICE OF AUXILIARY COMMANDS

Rotative switch, Toggle switch, Push button,
Key switch, Potentiometer.

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TECHNICAL DATA

Power supply	3,7VDC with Li-ion battery
Frequency band	433.05 - 434.79 MHz (69 channels) 2,4GHz (16 channels)
Range	100 meters
Autonomy with fully charged battery (20°C ie 68°F)	≃ 25 hours with Li-ion battery
Safety performance STOP function (EN ISO 13849-1) [a]	PL e
Protection degree	IP65 (NEMA 4)
Operating and storage temperature	Operating -25°C ÷ +55°C Storage: -40°C ÷ +85°C
Dimensions	S 72 x 42 x 190 mm, L 72 x 42 x 255 mm
Weight	≃ 0,235 Kg, ≃ 0,315 Kg

RECEIVERS	H AC / H DC	L AC / L DC	S AC / S DC	M AC
Supply voltage	H-AC: 45-240 Vac (50-60 Hz); H-DC: 11÷30 Vdc and 24 Vac (50-60 Hz)	L-AC: 24-240 Vac (50-60 Hz); L-DC: 11÷30 Vdc	S-AC: 24 Vac (50-60 Hz) / 12÷30 Vdc (Optional 24-440 VAC [50-60 Hz]) S-DC: 12÷30 Vdc	12÷30 Vdc / 24 Vac (50-60 Hz)
Safety commands	STOP, Safety-Enable (up to 8)	STOP, Safety-Enable	STOP, Safety-Enable	STOP, Safety-Enable
Commands	73 [a] relays or MOS, 32 [a] Analog (PWM, current, voltage)	16 relays or 20 MOS, 8 Analog (PWM, curarent, voltage)	S-AC: 14 relays (N.O.); S-DC: Max 14 MOSFET (N.O), Max 4 Proportional, 2 Digital IN	24 relays (20 N.O. and 4 N.C./N.O.) 4 Analog (Current, voltage)
Service commands	Start, Horn, Timed-Relay	Start, Horn, Timed-Relay [b]	Start, Horn, (configurable)	Start, Blinker (Among the 24 relays)
Input port	CAN, Serial RS232/RS485	CAN, Serial RS232/RS485	S-DC: CAN, Serial RS232 RS485	CAN, Serial RS232/RS485
STOP relay category [a]	PLe Cat 4, ISO 13849-1: 2006 6.2.7 architecture	PLe Cat 4, ISO 13849-1: 2006 6.2.7 architecture	PLe Cat 4, ISO 13849-1: 2006 6.2.7 architecture. PLc Cat 1, ISO 13849-1: 2006 6.2.3 architecture, (With ARES2 C and WAVE2 C)	PLe Cat 4, ISO 13849-1: 2006 6.2.7 architecture
Field BUS	CAN (ID 11-29 bit) CANOpen (ID 11-29 bit) RS232 / RS485	CAN (ID 11-29 bit) CANOpen (ID 11-29 bit) RS232 / RS485	S-DC: RS232 / RS485 (115200 Baud max) CAN_Bus (ID 11-29 bit) (1Mbit/s max) CANOpen (ID 11-29 bit) (1Mbit/s max)	CAN (ID 11-29 bit) CANOpen (ID 11-29 bit) RS232 / RS485
Integrated flashing light	/	/	Only AC version	/
Operating temperature	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C	-25°C - +70°C
Degree of protection	IP 66	IP 66	IP 66	IP20
Dimensions	205 x 130 x 280 mm	140 x 65 x 230 mm	127 x 147 x 70 mm	180 x 120 x 73 mm
Weight	3500 g	1700 g	630 g	910 g

a : depends on the configuration
b : only for L DC

IMET Srl reserves the right to make eventual changes to the product without notice.