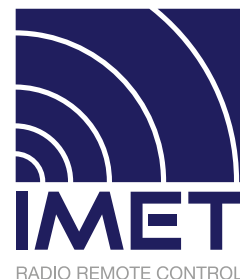


# WAVE2 M880



## WAVE2 L

Weight Dimensions  
445 g 75 x 43 x 245 mm

## WAVE2 S

Weight Dimensions  
375 g 75 x 43 x 180 mm

## APPLICATIONS

- EOT / Gantry / Jib Cranes
- Hoists / Winches
- Electromagnets
- Construction Cranes
- Concrete Mixers
- Dust Suppression Sprayers
- Container Loaders
- Recovery Vehicles
- Conveyor Belts

## OPTIONS

	<p><b>DATA FEEDBACK</b> Data feedback on 64X102 pixels graphic display and 4 Leds.</p>
	<p><b>TORCH</b> Keypad illumination for operations in the darkness or torch. Can be combined with a light sensor.</p>
	<p><b>I-READY</b> An Infrared directional START operation guarantee the right machine has been picked up.</p>
	<p><b>MTRS (MULTI TRANSMITTER RECEIVER SYSTEM)</b> It allows the classic Tandem, Catch-Release, Master-Slave working modes and many other configurations demanding the logging In and logging Out capability.</p>
	<p><b>ENABLING SWITCH</b> 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.</p>
	<p><b>PITool</b> This device allows to interface the transmitting and receiving units to a PC for parameter setting and diagnosis purpose.</p>

## DETAILS

	<p><b>STATUS LEDs</b> Colored LEDs report about the status of the radio link, the battery charge level and make the diagnosis of anomalies.</p>
	<p><b>PIN CODE</b> Start PIN code can be programmed to restrict the use to authorized personnel.</p>
	<p><b>LEGENDS</b> Clear and wide pushbutton legends, with the possibility of having fully customized symbols.</p>
	<p><b>STOP</b> Mushroom head STOP button featuring Functional Safety level PLe/SIL3/Cat4.</p>
	<p><b>CARRYING BELTS</b> Comfortable carrying belts.</p>
	<p><b>BATTERY CHARGER BATTERIES</b> Fast charger and extractable rechargeable Li-ion batteries for extra long duration.</p>
	<p><b>SLEEVE</b> Represents an additional protection that facilitates the use of your WAVE2 even in extreme working conditions, but without altering its ergonomic shape.</p>



## BIG CHOICE OF AUXILIARY COMMANDS

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

# WAVE2 M880



## 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) <sup>a</sup>	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 <sup>a</sup> relays or MOS, 32 <sup>a</sup> Analog (PWM, current, voltage)	16 relays or 20 MOS, 8 Analog (PWM, current, 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 <sup>b</sup>	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 <sup>a</sup>	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 - +60°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

<sup>a</sup> : depends on the configuration  
<sup>b</sup> : only for L DC

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