

M880 RECEIVERS



PROFESSIONAL RADIO CONTROLS

M880 NEW SERIES



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, 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 ^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 - +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

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

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



**OUR EXPERIENCE
IN A NEW DIMENSION**

THOR2 M9

Weight 2300 g Dimensions 295 x 250 x 160 mm



THOR2

STRONG AND COMPLETE



THOR2 B2

Weight 2300 g
Dimensions 295 x 250 x 165 mm



THOR2 B3

Weight 2300 g
Dimensions 295 x 180 x 160 mm



THOR2 NJ

Weight 2300 g
Dimensions 295 x 180 x 160 mm



THOR2 X

Weight 2300 g
Dimensions 295 x 180 x 160 mm



ADD BOX DISPLAY

The ADD BOX expands the number of commands present in the transmitting unit, allowing to insert additional push-buttons, potentiometers, switches, etc., according to specific requests. It is also used as housing for a large display (also available with a 160x104 or TFT QVGA 4" graphic display) or by LEDs, to visualize data and/or alarms coming from the crane.

STRONG AND COMPLETE

THOR2 represents the perfect synthesis of efficiency, ergonomics and high degree of customization. A perfect mix of design and functionality that puts it back at the top of its category. With up to 9 single-axis joysticks or 4 biaxial joysticks on the main panel, comfortable width and double battery for non-stop working shifts, THOR2 is aimed at hydraulic cranes with 6 to 10 functions. Numerous push-buttons, potentiometers, toggle or rotary switches find place on the main panel, making THOR2 ideal for machines of any complexity.

SUPPLY KIT

Transmitting unit, receiver unit, 1 or 2 rechargeable NiMh batteries, battery charger, carrying belt, packet fuses, RX fixing brackets, user manual, declaration of conformity CE.

OPTIONS

Truck cranes retrofit kit, Tilt-Sensor, Serial Cable, MTRS, Kapta, Twin B, Backlit transmitter panel.

TECHNICAL DATA

Casing material	Charged nylon UL94 HB
Degree of protection	IP 65
STOP	PLe Cat.4 (ISO 13849-1:2006 6.2.7 architecture)
Command JOYSTICK	PLd Cat.3 (ISO 13849-1:2006 6.2.6 architecture)
LEVER - BUTTON	PLc Cat.2 (ISO 13849-1:2006 6.2.5 architecture)
Operating frequency 1	I.S.M. Band 433.050-434.790 MHz
Operating frequency 2	I.S.M. 434.040-434.790 MHz
Operating frequency 3	2,4 GHz, 16 ch
Range	100 m
Autonomy at 20°C	≈ 22 hours
Operating and storage temperature	-25°C - +70°C / -40°C - +85°C

DETAILS

	STATUS LEDs Colored LEDs report about the status of the radio link, the battery charge level and make the diagnosis of anomalies.		NO ENVIRONMENT IS TOO HARSH The boxes are designed and built with highly impact-resistant material, resistance to exposure in chemically aggressive environments.
	PIN CODE Access PIN code can be programmed to restrict the use to authorized personnel.		SIZE AND WEIGHT They are very compact and thus, allow the operator to have a higher freedom of movement.
	STOP Mushroom head STOP button featuring Functional Safety level PLe/SIL3/Cat4.		ERGONOMIC BELTS Two practical and sturdy belts for the use of a pouch or shoulder strap of your manipulator.
	JOYSTICK (ALSO Z-AXIS) Tested for 15.000.000 operations; long stroke lever with +/-40° tilting angle.		BATTERY CHARGER BATTERIES Fast charger and extractable rechargeable NiMh batteries for extra long duration.