



M550S G3 • M550S Z6

...IMET radio remote controls

The radio remote controls M550 Z6 and G3 can fit to the greatest part of the hydraulic cranes present on the market. Great performances and reliable reproduction of the proportional commands, enabling also the contemporarily operation of more functions.

Both versions can be equipped with bi-axial and single axial joysticks up to 7 functions. The available functions are: Boom extract/retract, on/off motor, gas +/-, reset horn, speed reduction.

The radio remote controls M550 Z6 and G3 can be interfaced with electro-hydraulic distributors or IMET actuators.

All joysticks installed on the Z (single axial) and G (bi-axial) radio remote control versions are designed and manufactured directly by IMET, employing an optical device, thus granting a high precision level, long lasting use, also due to the absence of frictions.

The special material employed for the housing grants a high resistance level and great reliability also wearing gloves.

All models are equipped with extractable safety keys, a mushroom-head emergency stop button, easily reachable and a luminous LED, showing the battery charge level.

The frequency change of the working channel is carried out directly from the transmitting board, choosing between two modalities: "two steps" or "any step".

The set up of the minimum and maximum values of the lever stroke can be carried out directly from the transmitting board. This procedure enables to eliminate all dead points, thus making a maximum use of the movement range of the joysticks.

All models of radio remote controls Z6 and G3 are classified under safety category 4 for the STOP command and category 3 for the commands of movement with active safety STOP (UNI EN 954-1).

Radio remote control kit

The kit is composed by a transmitting unit, a receiving unit, two safety keys, a battery charger, two extractable and rechargeable Ni-MH batteries, the user's manual and the CE declaration of conformity.



...some details



BI-AXIAL JOYSTICK

IMET innovative joysticks, employing an optical device. No frictions. More precision and reliability. Possibility of commanding simultaneously more functions. Till to 5 steps for each direction. Bi-axial versions and crosswise movements available. Angle: $\pm 35^\circ$.



SAFETY KEY

Safety extractable key, enabling the employ of the radio remote control only to authorised personnel.



SINGLE AXIAL JOYSTICK

Imet innovative Joystick, employing an optical device. No frictions. More precision and reliability. Interchangeable symbols, placed directly on the joystick. Angle: $\pm 40^\circ$.



MUSHROOM-HEAD EMERGENCY BUTTON

Emergency button, easily reachable and well protected against accidental blows.



EXTRACTABLE BATTERY

Exclusive battery with screwed coupling. O-ring gasket, granting extreme tightness against powder and water infiltration.



BATTERY LED

Green LED signalling the battery charge level.



BELT USE

Belt fixing system to grant extreme freedom of movement.



CUSTOMISED SOLUTIONS

Transmitting board equipped with special symbols and logos on demand. *(optional)*



TILT SENSOR

Electronic sensor, stopping the machine when exceeding a certain tilt degree. *(optional)*



DISPLAY

Alphanumeric display for the visualisation of the data coming from the machine. *(optional)*

...standards

Machine directive 98/37 CE

EN 330 220-3 (2000)
EN 301 489-1 (2000)
EN 301 489-3 (2001)
EN 61000-6-2
UNI EN 954-1 (10-1998)
EN 60204-32, 1998-10
EN 60950 (2000)

1999/5/CE acknowledged by the LAW DECREE dated 09/05/01, No 269
89/336/CEE, art. 4, 10.1 e 10.2. attachments I and III
73/23/CEE, art. 2, All. I, III Part B, IV and following variations

(Standard SRD)
(Standard EMC)
(Standard EMC)
(Standard EMC)
(Parts of command systems dealing with safety)
(Machinery safety)
(Safety in information technology)

(Directive R&TTE)
(Directive EMC)
(Directive LV)

TRANSMITTING UNIT

	M550S Z6/G3	M550D Z6/G3*
Operating frequency	I.S.M. Band E2 434.050 ÷ 434.775 Mhz	
Reference standard	ETSI EN 300 220-3 2000	
Duct	25 Khz Simplex	25 Khz Half Duplex
Number of P.L.L. programmable radio channels	30	
Beam	≈ 100 m	
Modulation	GMSK	
Emission power of the RF system	10 mW ERP (Internal antenna)	
Type of RF receiver		Superetherodine IF 83.16 Mhz - 455Khz
Receiver sensitivity		0,22µV per 12dB Sinad
Emission class	F1D	
Max. number of ON/OFF commands	See the receiver specifications	
Max. number of analogue commands	See the receiver specifications	
Operation and safety commands	Start, Horn, Emergency Stop	
Hamming distance	≥ 9	
Probability of no error detection	< 7,34x10 ⁻¹²	
Available pairing addresses	65536	
Delay time by the receiver activation	< 3 s	
Delay time on the start command	< 750 ms	
Response time of commands	< 110 ms	< 120 ms
Response time of active emergency	< 150 ms	< 220 ms
Intervention time of passive emergency	< 800 ms	
Safety category of the emergency stop	4 (UNI EN 954-1)	
Safety category of movement commands	3 with safety stop (UNI EN 954-1)	
Operation and storage temperature	-20°C ÷ +70°C (-4°F ÷ 158°F)	
Housing protection degree	IP 65	
Housing material	Charged nylon	
Supply tension	6 Vdc	
Absorption	90 mA	110 mA
Supply power	0,54 W	0,66 W
Battery	NiMh 6V 1 A/	
Autonomy by 20 °C with charged battery and continuous operation	≈ 11 h	≈ 9 h
Advice time "battery down"	≈ 15 min	
LCD display		2 lines of 16 characters each
Dimensions (L.P.H.)		
type G3	235x177x175 mm	
type Z6	196x137x170 mm	
Weight (battery included)		
type G3	≈ 1,800 Kg	
type Z6	≈ 1,350 Kg	

BATTERY CHARGER

	AC Version	DC Version
Supply tension	230Vac	11÷32Vdc
Absorption	3W during the charge	
Charge current	450mA	
Max. loading time	≈ 3 h	
Type of load control	PVD	
Housing protection degree	IP30	
Operation temperature with charged battery	0°C ÷ +35°C (32°F ÷ 95°F)	
Storage temperature off and without battery	-20°C ÷ +70°C (-4°F ÷ 158°F)	
Dimensions (L.P.H.)	137x94x260 mm	
Weight	825 g	535 g

*Data Feedback modality

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

