

IMET M550S 'ZEUS / THOR' Hydra Radio Control for Hydraulic Cranes & Equipment



M550 ZEUS HYDRA 'M6'

Small transmitter up to 6 Joysticks
+ Start & E-Stop and a maximum of
8 auxiliary commands



M550 THOR HYDRA 'M8'

Large transmitter available with up
to 8 Joysticks + Start & E-Stop
and a maximum of 10 auxiliary
commands

M550S HYDRA - STANDARD FEATURES



Waist Belt

All IMET Joystick transmitters come c/w an adjustable waist strap for operator comfort



NiMH Batteries.

2 x Rechargeable NiMH batteries supplied as standard giving continuous useage time of approx 15 hours between charges



Mushroom Head Emergency Stop.

Easily accessible and protected against accidental damage. Stop system complies fully with EN954-1 Category IV



Start / Horn Button.

Easily accessible, mounted on the top face of the transmitter.



Gold plated contacts

Gold plated battery contacts ensure no corrosion & long life.



Safety Key.

New safety extractable key enabling restriction of Radio use to authorised personnel only



Single Axial Proportional Joysticks

Standard, programmable proportional joysticks for variable speed applications



IP65 Receiver

Standard receivers available for 12/28v DC Power supply

M550S HYDRA - STANDARD OPTIONS



Auxilliary Commands :

Up to 10 rotary selector switches, push buttons or potentiometers can be added to any IMET Joystick transmitters.

Common commands include :-

- Engine On/Off,
- Engine RPM + / -
- Rabbit / Snail



LED Display :

Available with ALL Zeus / Thor systems, this allows information from the crane to be displayed on the transmitter



Conversion Kit :

The conversion kit is suitable for converting existing, lever operated hydraulic cranes and machines to radio control. The power pack & cable kit can be supplied c/w Herschmann style plugs for existing electronic valves, or with the addition of actuator kit & clamps to adapt to existing cross rod systems - details of individual components are shown below



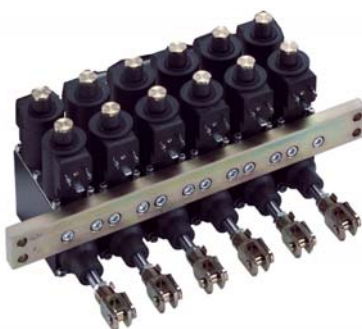
Hydraulic Pump :

Available for either 12v or 24v DC, we recommend the use of the dedicated pump for the control circuit to ensure no impurities are present in the system



Cable Kit :

Available with most popular valve plug connection types, the kit is also supplied c/w a standard plug to connect to the radio receiver and a remote On / Off switch



Actuator Kit :

Specifically designed for converting traditional cross rod operated machines to radio control, the actuator kit must be rigidly attached to the machine body or chassis and the actuator arms attached to the cross rods with the clamps provided



Cross Rod Clamps :

Providing the interface between actuators & cross rods, the clamps are easily attached

TECHNICAL DATA

Transmitters



ZEUS

THOR

Models: (All Joysticks available with max 5 notches, or stepless)

- ◆ ZEUS - Max 6 x Joysticks + ancillary functions
- ◆ THOR - Max 8 x Joysticks + wider range of ancillary functions

Both types can be fitted with digital readout (shown above on both transmitters)

Specification:

Dimensions:
 ZEUS 210 x 130 x 150mm 1.2 kg
 THOR 295 x 150 x 150mm 1.65 kg

Frequency Range 434.050—434.775Mhz
 Separation 25Khz steps
 No of channels 30
 Range ~100mts in clear conditions
 Modulation GMSK
 Output power 10mW ERP
 Pairing addresses 65,536
 Housing material Fibre re-enforced nylon
 Protection IP65
 Temp range -20°C to +70°C

Battery charger:

Power supply AC version 230V
 DC version 11-32V
 Absorption 3 W during charging
 Recharging time ~ 3hours
 Charging temp. 0°C to +35°C
 Dimensions 137 x 75 x 30mm
 Weight AC Version 825g
 DC version 535g

Receivers

Models:

The **M550S ZEUS / THOR** range of Radio systems uses three standard types of Receiver as shown below :



Type 'L'
 16 x 12 Amp
 volt free relays



Type 'H'
 16 - 48 x 12 Amp
 volt free relays



Type 'M'
 20 Digital + 4
 Analogue outputs

Data common to both Type "L" & "H"

Power supply DC 12 to 28VDC
 Absorbed power 20W max
 Max. analogue outputs 8 - Voltage or Current driven
 Stop relay volt free Category 4 6A
 Start relay volt free Yes
 Security relay volt free Operated by each motion button
 Dimensions Type 'L' - 145 x 65 x 225
 Type 'H' - 205 x 280 x 130
 Weight 3.5Kg
 Housing material Fibre re-enforced nylon
 Protection IP65
 Temp range -20°C to +70°C
 Frequency range 434.050—434.775Mhz
 Separation 25Khz steps

Type 'M' similar to above except :-

Power Supply 12 - 28v AC/DC
 Dimensions 180 x 120 x 73
 Weight 1.0 kg
 Mounting type DIN Rail for mounting inside
 Control panel or box

Relevant standards:

Machine directive 98/37 CE
 EN 330 220-3 (2000) (Standard SRD)
 EN 301 489-1 (2000) (Standard EMC)
 EN 301 489-3 (2001) (Standard EMC)
 EN 61000-6-2 (Standard EMC)
 EN 60204-32, 1998-10 (Machinery safety)
 EN 60950 (2000) (Safety information technology)
 1999/5/CE ack. by law decree 09/05/01 No 269 (Directive R&TTE)
 UNI EN 954-1 (10-1998) (Parts of command system with safety)
 89/336/CEE art. 4, 10.1& 10.2 attachments 1 & " (Directive EMC)
 73/23/CEE art 2, All. 1,3 part B,4 and variations (Directive LV)

Standard systems comprise:

- 1 Transmitter with carrying strap, 2 Nimh rechargeable batteries and charger.
- 1 Receiver c/w antennae
- 1 Installation and maintenance instructions
- 1 Certificate of conformity