

LOAD INSTRUMENTATION LTD

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INSTALLATION & OPERATION MANUAL

MODEL

LOADWISE 315 SYSTEM

FCCID: OEF – LW 315T5 (TRANSMITTER)
FCCID: OEF – LW 315R5 (RECEIVER)

Load Instrumentation Ltd
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Load Instrumentation are manufacturers and suppliers of a range of LOADWISE equipment, designed for the purpose of monitoring loads and configurations on cranes and similar equipment.

315/24/01/99

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Transmitter:

FCC ID: OEF-LW315T5

Receiver:

FCC D: OEF-LW315RF

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any modification or change to the equipment without the expressed permission from Load Instrumentation in writing will void the users authority to operate the equipment.

This equipment should not be connected to any public utility.

WHAT IT IS

An FM radio link that allows a remote safety switch to be sensed.

WHAT IT DOES

It monitors a safety switch and the state of its battery and transmits a signal coded to include the transmitter identity.

The receiver displays the safety switch state, the battery state and whether a regular transmission is being received.

WHAT IT CONSISTS OF

1. In THE CAB is the DISPLAY UNIT giving:
 - (a) Safety switch state.
 - (b) Battery state.
 - (c) Signal state.
 - (d) An audible alarm associated with the safety switch state.
 - (e) An over-ride key switch for inhibiting any externally connected alarm action.
2. On THE BOOM is
 - (a) The transmitter box with integral batteries.
 - (b) The safety switch and weight.

OPERATION

1. The transmitter being permanently powered is transmitting approximately every 75 minutes whilst the safety switch is closed. It will transmit when the safety switch is opened or closed and if the battery is becoming low. It will not transmit whilst the switch is continuously open.
2. The display when power is applied will go into alarm until a transmission is received. This may be by deliberately activating the safety switch to test its function or waiting up to 75 minutes for a regular transmission to happen (even then only if the safety switch is closed).

The system will not reset if:-

- (a) The safety switch is open.
 - (b) The battery is too low.
 - (c) The transmitter is masked by a metal object.
3. When the battery LED illuminates there is enough power for approximately 7 days usage. This gives sufficient time for the batteries to be replaced.
 4. If the system is being used within close proximity of other systems then they should be encoded with system identifiers to stop interference between different cranes.

INSTALLATION

1. THE DISPLAY UNIT

Must be mounted in clear view and reach of the operator. The top rear edge of the display should have a 'LINE OF SIGHT' to the transmitter at all times, (i.e. all boom lengths and boom angles), which should not be obscured by any metallic objects (including the cab roof).

2. THE TRANSMITTER

Should be positioned under the boom head with the indicated lid edge parallel and towards the display unit. This lid edge should be as far as possible from the boom (within the constraint of sensible and unintrusive brackets).

3. THE SAFETY SWITCH

Should be positioned according to the manufacturer's instructions. The LOADWISE 310 system instructions may be used as an example.

4. ELECTRICAL CONNECTIONS

See the appended drawing.

MAINTENANCE

1. The DISPLAY UNIT is maintenance free and should be replaced in the event of failure.
2. The TRANSMITTER BOX

Is of polyester/fibreglass construction with stainless steel screws and is also maintenance free. However on the occasion of changing batteries the lid seal and fixing screws should be lightly greased before reassembly.
3. The batteries are 1.5 volt size AA and should be replaced every year or sooner. The replacements should be of an ALKALINE type and not NICAD or LITHIUM. All six batteries should be changed together by:-
 - 1) Undoing the four lid screws.
 - 2) Undoing the battery strap.
 - 3) Removing the old batteries.
 - 4) Replacing the batteries being aware of the polarity size on each holder.
 - 5) Clipping the elasticated strap together.
 - 6) Greasing the screw threads and lid seal.
 - 7) Replacing the lid and tightening the screws.
4. Where the system requires IDENTITY selection these modules should be fitted at the time of ordering but can be fitted later following the instructions supplied with each module pair.

CONNECTIONS

