

Guidance for the Operation of Wireless Load Links

JWA supplied wireless load links provide accurate and reliable tensile load monitoring for lifting and load testing applications.

Designed for ease of use and mobility, load links are perfect for on-the-go applications where accurate results are critical.

- Accuracy <0.5% of applied load
- Designed to be rigged & operated with a Working Load Link (WLL) of the same capacity
- Safety factor of 5:1
- Every unit load tested and certified

Note – for low headroom situations, contact JWA for details of our Flowmeters



General Guidelines

- Except where stated, the equipment covered by these instructions are suitable for use in Safe areas only.
- ATEX (Atmosphères Explosibles) regulations typically refer to a Safe area as non-hazardous area or safe zone.
- These are areas where an explosive atmosphere (due to flammable gases, vapours, or dust) is not expected to occur in quantities that require special precautions for the construction, installation, and use of electrical apparatus.
- The equipment should be kept clear of metallic obstructions and electronic interference.
- The equipment should preferably be kept in line of sight if possible. Obstructions can increase chances of reduced range and occasional loss of signal.

Pre Use Checks

1. Check the condition of the transit case.
2. Inspect the contents and ensure all parts are present.
3. Switch the handset on using the ON/OFF button and wait for a reading.

Note – any issues with parts or equipment must be notified immediately to info@jwarentals.com





Rigging and Preparation

1. Rig the load link and shackles in straight orientation between the bag being tested and the lift.
2. Switch the handset on using the ON/OFF button (see below user instructions).
3. Wait for a reading and load link is then ready.
4. Press the TARE button to zero the load link.
5. Lift the bag clear off the ground, the handset will show the weight of the bag and rigging.
6. You can commence the full lift and fill.

User Instructions

The T24-HS Model Handset is designed to carry out the operation of load testing with the minimal of fuss.

Basic function overview:

- Power On/Off – Hold this down until the display reacts. The power off feature will automatically de-power the handset and the load link if left unsued. 
- Tare – This will toggle between Gross and Net Weights. Use this to tare out the units. 

The T24-HSS Model is as per the T24-HS model, with the added Unit selection and Peak Load functions.

- Units Key – Press to toggle between weight types on display.
- Peak Key – Press once to activate Peak mode (digits will flash)
 - Carry out load test
 - The digits will display at the highest load achieved until cleared.



Units of Measurement

The handset will read as per indicated on the left window of the handset (tonnes).

Status Indicators

G – GROSS – this denotes the raw weight. Generally this should be flashing at rigging stage, and T is pressed (switch to NET) to make the unit 0.0 before a lift.

N – NET – when this is highlighted, you have zeroed the link and this is showing the weight of the application.

SIG LOW – this means that there is a weaker signal being received. Although this won't affect the readings, try not to go further away from the load link, or try and re-adjust your location to avoid signal loss altogether.

BATT LOW – this means that the battery strength on the load link is low enough to show this warning. You will have limited time until the comms are low. Replace the batteries as soon as you can.

BATT LOW (LOAD CELL) – the handset requires battery changing. This will not affect the load link if the handset cuts off – a simple change and weighing can resume.

Batteries

Handset Batteries - the handset uses 2 x AA batteries which can be replaced by removing the back cover and fitting.

Load Link Batteries - Telemetry link sizes 3.25t up to 25t use 2 x AAA batteries. Sizes 35t up to 85t use 2 x AA batteries. These can be replaced by removing the 4 screws on back cover and fitting new ones, in correct polarity. Ensure that the seal is correctly seated and re-fit the battery replacement cover.



The load link has been provided with batteries which are used to keep the load link powered for over a considerable time on continuous operation. This will retain a much longer duration if switched off when not in use.

NOTE:

- Use only approved battery types.
- Do not use re-chargeable batteries.
- Replace all of the batteries at the same time.

Warnings Displayed on Handset

ERROR 1 - the transmitter module has a strain gauge input and is in shunt calibration mode. An external module has placed the transmitter module in shunt calibration mode, so rather than displaying a misleading reading, this error is displayed instead.

ERROR 2 - input integrity error. The transmitter module has found a problem with the input. There may be open or short circuits. Rather than displaying a misleading reading, this error is displayed instead.

OVERLOAD - the overload limit set by the user has been exceeded.

“.....” - This indicates that the batteries in the load link itself need changed.

Pairing Handset to Load Link (if required)

On occasion, if the handset reads ----- and there is sufficient power to both handset and load link, then the handset may require re-pairing to the load link.

To carry this procedure out:

- Ensure that the load link is not powered (remove 1 of the batteries from the electronics enclosure).
- Turn on the handset in pairing mode. Handset should be turned off. Press and hold the Power key then press and hold the Tare key.
- Now both keys are held down until PAIRING is seen on the display.

The keys can now be released.

- Quickly apply power to the load link within 10 seconds by placing the battery back in the unit.
- If successful, the handset will pair to the load link and the display will show a numeric value (or **ERROR 2** if the input integrity has failed). Once successful the handset will be linked to the load link and will send it to sleep when the handset is turned off and wake it when the handset is turned on.

If you are having rigging problems, please contact our technical team as we may be able to assist you with suggesting an alternative solution.