



JCM Load Monitoring

'Let us take the load'

Instructions for the safe use of JCM Load Monitoring ALRS2 load links



This information is for the general use of JCM Load Monitoring load links as per BS EN 7500-1:2018.

All load links supplied by JCM Load Monitoring are sold with the express understanding that the purchaser is thoroughly familiar with the safe and proper use and application of the product.

Responsibility for the use and application of the product rests with the user.

Our engineers are readily available to answer any technical questions. Failure of the product can occur due to misapplication, abuse, or improper maintenance.

Product failure could allow the load to become out of control, resulting in possible property damage, personal injury or death. Load limit ratings indicate the greatest force or load a product can carry under usual environmental conditions.

Shock loading and extraordinary conditions must be considered when selecting products for use in a system. In general, products are used as parts of a system being employed to accomplish a task. Therefore, we can only recommend within the Working Load Limits (WLL), or other stated limitations.

The Working Load Limit (WLL) of each product may be affected by wear, misuse, overloading, corrosion, deformation, intentional alteration, and other use conditions. Regular inspection must be conducted to determine whether use can be continued at the assigned WLL, a reduced WLL, or whether the product must be withdrawn from service.

Side loading must be avoided, as it exerts an additional force or loading which the product is not designed to accommodate. Make sure that the link is supporting the load correctly, i.e. along the axis of the link body centreline; avoid introduction of bending loads, unstable loads and do not apply overloads.

A load link shall only be used if the device is in good working order. For this purpose, a general inspection of the device shall be carried out before use via visual inspection.

The visual examination shall verify:

That the device is in good working order and its condition is not:

1. Affected by any pronounced wear or defects.
2. Affected by environmental conditions (vibrations, electricity supply interferences, effects of corrosion, local temperature variations, etc.)

Ensure the devices maximum capacity suits the application.

You must ensure that you have a valid calibration certificate for the device.

Load links should be fitted so that the body takes the load along its centre line and is not subjected to side bending loads.

Never modify, repair, or reshape a load link by machining, heating, or bending, as this will affect the WLL.

The load link shall be mounted in line with suitable safety bow shackles (please refer to the following chart) ensuring shackles split pins are fitted.



Load link – suitable safety bow shackles

Load link size (Tonne)	Suitable safety bow shackles (Tonne)
2.5	3.25
5	6.5
12.5	13.5
25	25
35	35
50	55
75	75
100	120
150	150
200	200
250	250
300	300
400	400

When not in use we recommend our load links be housed in its transit case/crate.

Terminology

Working Load Limit (WLL): The maximum mass or force which the product is certified to support in service.

Proof Load Test: A test applied to a product solely to determine injurious material or manufacturing defects.

Ultimate Strength: The average load or force at which the product fails or no longer supports the load. **Design (Safety) Factor:** Denotes a products theoretical reserve capability; computed by dividing the Ultimate Load by the Working Load Limit and expressed as a ratio.

Inspection and maintenance

Maintenance requirements are minimal. Keep load links clean and free of debris and protect from corrosion.

- Check the physical condition of the load cell.
- Check the condition of the handset.
- Check the battery levels in both the link and handset.

If there is any reason to think the load link may be damaged or compromised do not use and return to JCM for inspection/repair/calibration.

Warnings/Hazards

The following points should be followed to avoid potentially hazardous situations:

- Do not weld near to installed load links. Leakage currents may destroy the load links circuit.
- Damaged load links should be returned to JCM Load Monitoring for any repairs and re-calibration.
- The load link must never be placed in a potentially explosive environment unless the product is suitably certified (ATEX or IECEx).