



3rci

GKD Technik

3rci road rail vehicle rated capacity indicator featuring wheel load monitoring, touchscreen, CAN bus, data-logging*, backwards stability, lighting control and UK Rail-track approval.



The GKD 3rci indicator family introduces new thinking and a new approach to the monitoring of road rail vehicle stability.

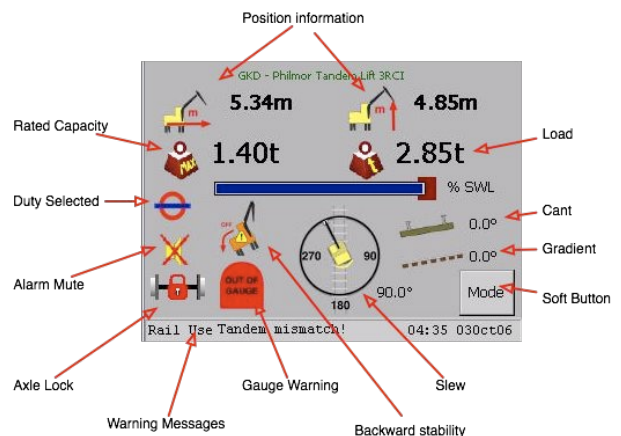
With innovative new measurement systems and use of modern technology the indicators are ready for forthcoming legislative changes to the the existing GM RT1300 standard (RIS 1530).

Some of the highlights of this new system include;

- ➔ The option of individual wheel load sensing allows, for the first time, the monitoring of stability regardless of the track conditions.
- ➔ Seamless duties ensure that the maximum lifting capacity is achieved at all slew angles. Thus allowing machines to perform at a level in excess of the class above.
- ➔ Constant monitoring of cant and gradient allows the machine to automatically compensate and provide enhanced lifting duties when on level track.
- ➔ Indication of in-gauge allows operators to travel in confidence.

The 3rci system is controlled via a touchscreen LCD display with large and clear indication of important data. Incorporating "soft" buttons on the touchscreen further enhances the 3rci system making it user-friendly to operate and configure.

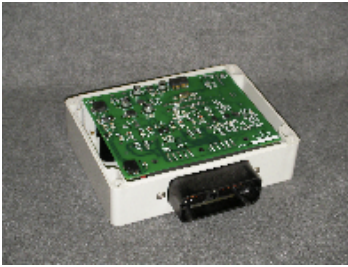
Clear icons are used throughout to make the system truly international.



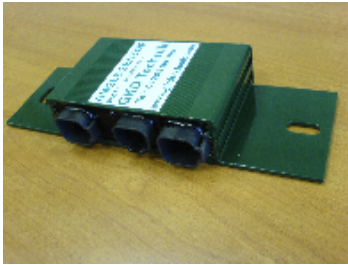
* optional

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Designed in a modular format the GKD 3rci utilises industry standard CAN bus connectivity to ensure ease of maintenance and robustness. Use of the CAN bus enables additional sensing and control to be quickly and easily added for special applications. The system utilises Deutsch connectors throughout to facilitate field repairs. Advanced diagnostics on-board provides continuous monitoring and intelligent fallback strategies to ensure maximum machine availability.



GM RT1300 and RIS-1530-PLT

The engineering acceptance of RRVs has recently been updated from GM-RT1300 to a new standard called RIS-1530-PLT. Important changes have been made in the new standard. Amongst these are the need for existing machines to be re-validated by a Vehicle Acceptance Board (VAB) after seven years. This re-validation includes compliance with the new standard. This will require RCIs to control machines to avoid overloading when switching duties. Furthermore new stability monitoring is introduced measuring load on rail wheels. The GKD 3rci is the first and only system to offer this facility.



Design Features:

- LCD touchscreen display 5.7" colour with back-light for clear indication
- Menu selections of language display
- Bar graph display of the rated capacity indication
- CAN bus sensor technology for ease of connectivity
- Automatic sensing of gradient and cant
- Slew sensing to provide slew limitations when working in confined spaces
- Intelligent motion-cut signals providing safe recovery algorithms
- Data logging detection of usage patterns*
- Automatic backward stability monitoring
- Height restrictions capabilities
- Modular design enabled by CAN Bus technology
- High intensity LED visual warning indication
- Audible warning alert
- Key-switch security for site foreman control
- RCI automatically engages when vehicle is started up
- System self checks itself for error trapping with a fallback strategy
- Integration with the machine systems allows for intelligent control of rail lighting, detection of trailer breakaway and automatic control of axle locks

GKD Technik design and supply:-

Overload warning systems for Road Rail Vehicles, Excavators, Lorry Loaders, Demolition Machines.

GPS location and security systems using Wireless & GSM communications. Whole life stress monitoring.

Contact GKD Technik for supply of OEM electronic systems special projects including robotic control of cranes and machines,

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