

## I4500 LMI / RCI Crane Indicator

Load moment indicators (LMI) and rated capacity indicators (RCI) are the most essential operator aid for protecting your crane from an overload accident. Both systems monitor the essential information the crane operator needs to know. The LMI or RCI show the operator the weight of the load being lifted, the capacity at that radius, the boom angle, length, radius and anti-two block (ATB) warning. There are several different sensors and designs used to monitor this information.

LMI systems measure the force on the boom. Usually this is on a telescopic boom crane and done with pressure sensors on the rod and bore side of the boom lift cylinder. RCI systems directly measure the tension of the hoist line. Usually this is done with a load link, pin or dynamometer.

Rayco/Wylie built the first crane overload indicator in 1934 and offers the latest technology and design for LMI & RCI systems today. We supply LMI and RCI systems for all types of cranes.

### I4500 RCI / LMI in Multiple Screen Choices



- Full Color Screen in 4.3", 7" & 10"
- Can be read in full sun and has night mode
- Selectable units in m/te, m/kg, ft/klbs, ft/tons, ft/long tons, ft/lbs
- Choice of 10 languages
- Wireless gateways for wireless sensors
- IP67 for open cabs
- CE & OSHA compliant
- CANBus for reliability
- Data logger option
- Wind speed option

The i4500 LMI / RCI is available for carry deck cranes, lattice cranes, tower cranes, offshore cranes and everything in between. The i4500 comes in three screen sizes. (4.3", 7" and 10"). It uses a CANbus network for easy troubleshooting and diagnostics. Calibration data can be uploaded or downloaded by USB. There is an optional data logger that can be used to record all the lifting activity. The i4500 is our most advanced LMI / RCI.

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### Technical Data

- Display sizes of either 4.3 inches, 7 inches or 10.4 inches (4.3-inch display dimensions: 3,66"x7,80"x1,65" / 93x198x42 mm)
- High resolution LCD screen readable in direct sunlight and with dimmable backlit at night, with accurate color images
- Large integral memory 2GB (upgradable on request) and processor speed (600/800 MHz)
- Flexibility to add inputs and outputs on the CANbus network
- Intelligent computing for self-diagnostic detection of system malfunction
- Uploading of new information via a USB Stick - No special tools or laptop required with all calibration done from the display screen
- Display rating up to IP67 and suitable for an indoor or outdoor environment and a temperature range of -40° C to +70° C (-40°F to 158°F).
- Supply voltage 11 to 36 vdc
- Audible and visual alarms
- Output connection for lock-out circuit for overload and ATB
- Self-diagnostic mode with fault log
- CPU and Display in one unit

## I4500 LMI for telescopic boom cranes



### Standard display style with traditional RCI information

The i4500 LMI kit on telescopic boom cranes uses pressure transducers on the boom lift cylinder to measure the load on the boom along with a cable reel for measuring the boom angle and length. This is the most accurate way to measure the load and covers both hoist with one set of sensors. The pressure transducers are small and installed on the rod and bore side of the lift cylinder so there are no moving parts like with a dynamometer or load links above the hook block. Pressure transducer systems are the preferred LMI for crane OEM's. Long term they are the most trouble free, low maintenance and accurate LMI systems.

