

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.

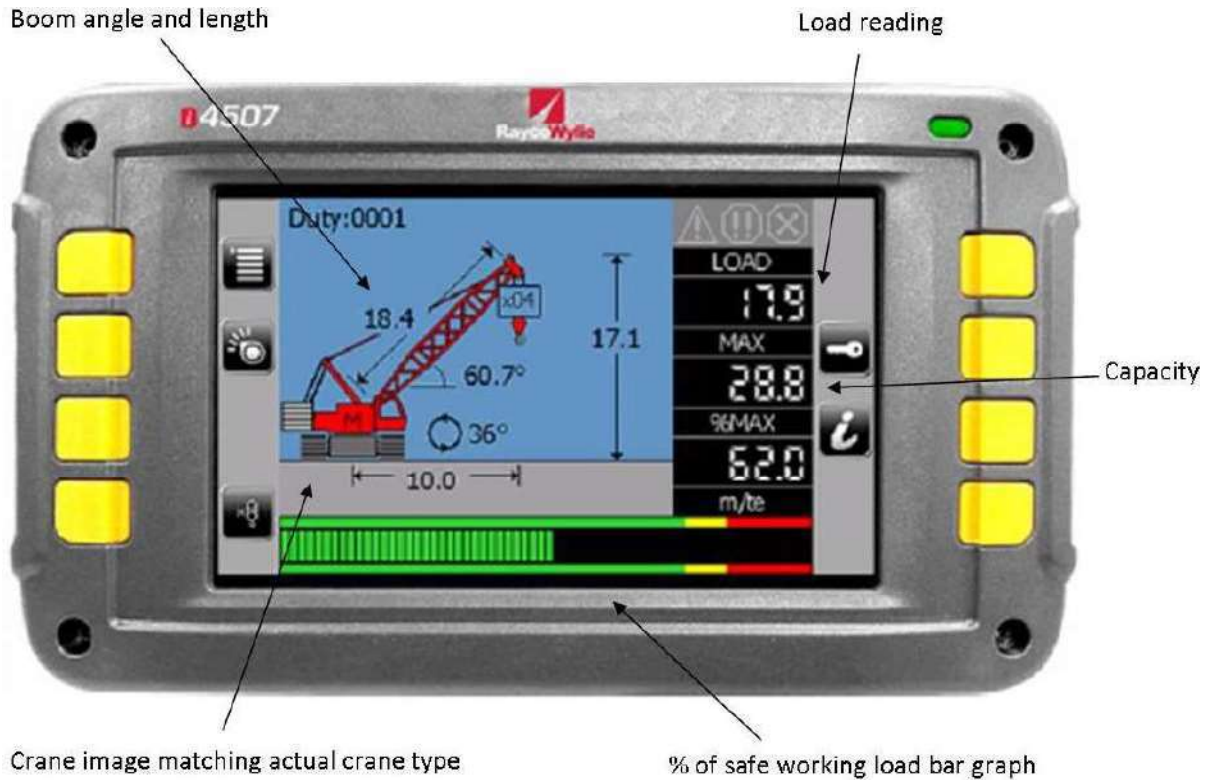
I4500 LMI / RCI Crane Indicator



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 $+70^{\circ}\text{C}$ (-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 RCI for lattice boom cranes



The i4507 (7" display) RCI on lattice cranes uses a variety of sensors depending on what will work best on the specific model crane. Often the system will use two dynamometers or a dynamometer and dead-end load link along with the boom angle sensor and ATB switch assembly. Cranes with luffing jibs will add a 2nd angle sensor and some cranes will use a slew sensor to measure 360 degree rotation. Other optional sensors include list angle sensors for cranes on barges or windspeed sensors mounted at the boom tip. For large lattice cranes the RCI system is the most important operator aid for the safety and efficiency.

