



RaycoWylie
SYSTEMS

CANbus Rated Capacity Indicator

3500 - CANbus

Make your lift simple. The 3500 Rated Capacity Indicator uses the latest technology allowing your most complex needs to be simplified in one easy screen.

Reliable, simple to install and versatile this system can be customized to meet your most demanding requirements.



Your advantages with Rayco-Wylie:

- Available products and parts at all times
- Fast and simple installation and calibration
- Reliability and quality you can count on
- Expert advice and support, when you need it the most
- Fast delivery, when time counts
- Adaptable, versatile systems and products
- All systems are user-friendly
- All Rayco-Wylie products are fully certified
- Priced right for tremendous value



Helping you get the job done safely, efficiently and on time.

Advantages

1. CANbus communication link

- Simple to install
- Highly reliable in a noisy environment
- Uses a single cable network
- Makes possible the addition of new sensors to the network
- Compatible with most existing competitive sensors
- Facilitates sensor or system failure detection.



2. User friendly

- Graphical display
- Pop-up window selection
- Self-diagnosis system warns the operator of any type of system failure
- Keypad is used for all calibration routines (no additional device needed)
- Reverse video display for low-light viewing.



3. Flexible

- Choice of 9 languages available on the same display
- Engineered to fit all crane applications
- Operator can select units preference
- Graphic buttons for international use.



4. Maximize productivity

- View all necessary information at a glance
- Provides a built-in bar graph showing percentage of safe working load (SWL)
- Graphical display customized to your crane configuration
- Monitors data and allows data transmission for analysis of crane performance via satellite.

5. Increase safety and protection

- Audible and visual alarms
- Data protection in case of failure
- Motion cut option
- Hoist rope overload protection
- Meets American, European and international safety standards
- Calibration is password and hardware protected



The **i**3500

combines all the crucial information you need



- Range limiting device - Payout - Outrigger monitoring - Hook height
- Slew indication by absolute encoder - Line speed - Anti-Two-Block system - Wind speed
- Data logger - List angle - Data transmission

Component description:



- 1- **Graphical Display:** Is also the central processing unit of the i3500. Its principal feature is 2 CANbus communication interfaces and a graphical LCD screen.
- 2- **Isolated digital input and relay box:** This card actuates the relays according to commands received on the CANbus link. The processor reads 4 digital inputs; their status is transmitted to the CPU.
- 3- **Pressure sensors:** Highly sensitive, built for precise lifting and weighing in harsh environment.
- 4- **Cable reel with angle and length sensor:** a solid-state angle sensor is used to monitor the angle of the boom. 5-10 turns potentiometer available.
- 5- **Anti-two-block:** The anti-two-block switch is a normally closed (with weight hanging) spring-loaded switch.
- 6- **Wind speed sensor:** Shows wind speed value on the display.

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Applications

- Telescopic cranes
- Boom trucks
- Knuckle-boom cranes

Technical Data

◦ Accuracy :	± 3.75% of rated capacity	
◦ Operating temperature:	-20°C to +70°C	
◦ Supply voltage :	11 to 36 VDC	
◦ Display size :	6.25" x 8.5" x 3" (15.8cm x 21.6cm x 7.5cm)	
◦ Display sealing :	IP65	
◦ Memory capacity :	10,000 load/radius curves	
◦ CANbus sensors / interface :	DEFAULT QUANTITY	MAXIMAL QUANTITY
- Load or pressure sensor	2	4
- Angle, length sensor	1	5
- Relay output	5	32
- Digital input	4	16
- Provision for other sensors		
◦ Peripheral communication port	RS-232	

Load Sensors



Load link



Dynamometer



Load Pins



Pressure Sensor



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