



LEADERS IN INSTRUMENTATION AND ANCILLARY EQUIPMENT FOR THE LIFTING INDUSTRY

5000 SERIES

RATED CAPACITY & LOAD MOMENT INDICATORS / LIMITERS

FOR ALL CRANES

THE 500R SERIES HAS BEEN DESIGNED USING THE LATEST MANUFACTURING PROCESSES AND RETAINS ALL THE POPULAR FEATURES OF THE CLASSIC 500 SERIES. NOW WE HAVE DOUBLED THE MEMORY SIZE AND INTEGRATED OPTIONAL FEATURES TO SIMPLIFY YOUR INSTALLATIONS AND ON-SITE UPGRADES

- Simple & Easy to use
- Full microprocessor control
- Clear easy to read display
- Back lit for night use
- Rugged alloy housing
- Meets all known standards including: -
- BS 7262:1990 & BS 7121:2000



TOTAL MOMENT SYSTEMS MONITORING

- Hydraulic pressure in boom lift cylinders
- Forces in the boom suspension ropes & pendants
- Compensating cylinder pressures



LOAD SENSING SYSTEMS MONITORING

- Tension in the hoist rope—line pull
- Line-Rider (Dynamometer)
- Dead-End (Hoist rope anchor)



SIMPLE TO INSTALL

- No special equipment required
- Full instructions provided to install & calibrate
- User friendly software
- Fully trained engineers available
- World-wide support

- RELIABILITY**
- VERSATILITY**
- SIMPLICITY**

DESIGNED & MANUFACTURED BY...

LOADWISE INTERNATIONAL LIMITED





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The 5000 series is a fully automatic microprocessor controlled system and operational aid that clearly displays the information and warnings needed for the driver to operate the crane within the parameters of the crane's duty chart. For a fully featured indicator with a range of expansion options the 500R is the ideal choice.

Systems to suit all crane types including: -

- TELESCOPIC CRANES
- LATTICE CRANES
- LOADER CRANES (KNUCKLE BOOM)
- CONTAINER HANDLING CRANES
- PORT CRANES
- SHIP-BOARD CRANES & WINCHES
- OFFSHORE CRANES



Key Features include: -

- Large digital display (45mm x 125mm) - all essential information continuously displayed including:-
- Duty configuration selected
- Hoist drum (winch) selected and the number of lines (falls) reeved on the hook block
- Rated Capacity (Safe Working Load)
- The weight of the load
- A bar graph indicating the actual load lifted as a percentage of the rated capacity
- The radius of the load
- The angle of the boom
 - Visual & audible warnings of approach to and overload conditions
 - Warning messages: Out of radius/angle/duty. Over-Hoist (A2B), High/Low boom angle, Cut-Out Out of level, Last winding (minimum wraps left on the winch drum)
 - Boom length & Height of boom head
 - Operator Adjustable Limits
 - Rated Capacity Limiter to existing crane motion controls
- ◇ **Optional features**
 - Range Limiting—"Virtual Wall"
 - Slew Position by absolute encoder or proximity sensors - Interface included as standard
 - Data Logging - Interface included as standard
 - Wind Speed Indicator
 - Customised options on application



TECHNICAL SPECIFICATION

Display: Backlit LCD, 4 lines of 20 characters each. Horizontal or Vertical format
 Temperature range: -20°C to +60°C - BS7262:1990. -30°C to +50°C - SAE J159 USA
 Supply Voltage: 9.5 to 30V DC
 Current Drain: 500mA
 Relay Contacts: 10Amps volt free - relay voltage is independent of crane supply
 Four Programmable relay contacts (Boom synchronisation)
 Inputs Analogue: Up to 3 Load, 3 Angle & 2 Length
 Inputs Digital: Switching open/closed to supply voltage: Up to 255
 Outputs: 10 including four undefined relay coil outputs
 Memory capacity: Up to 10,000 duties (Integrated as standard without expansion pcb)
 Executive switches, opto-coupled to supply voltage: 8
 Enclosure sealing: IP65
 Solid state boom angle sensor - accuracy: +/- 0.1°
 Compliance with Health & safety requirements: 93/68/EEC, 89/336 & 92/31/EEC, EN50081-1-1:1992, EN50082-1:1997

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Loadwise International has a policy of continuous product improvement and reserves the right to amend specifications without prior notice