



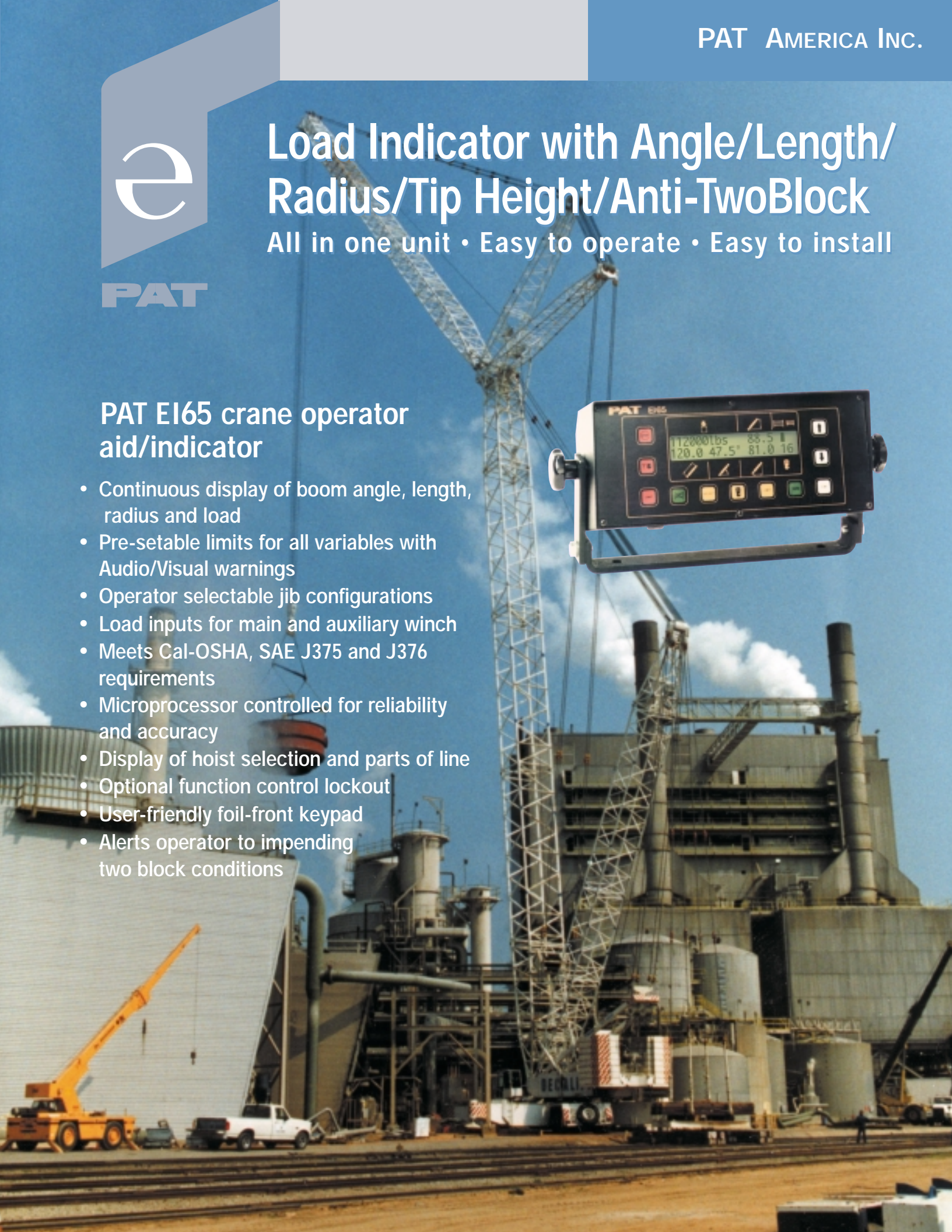
**PAT**

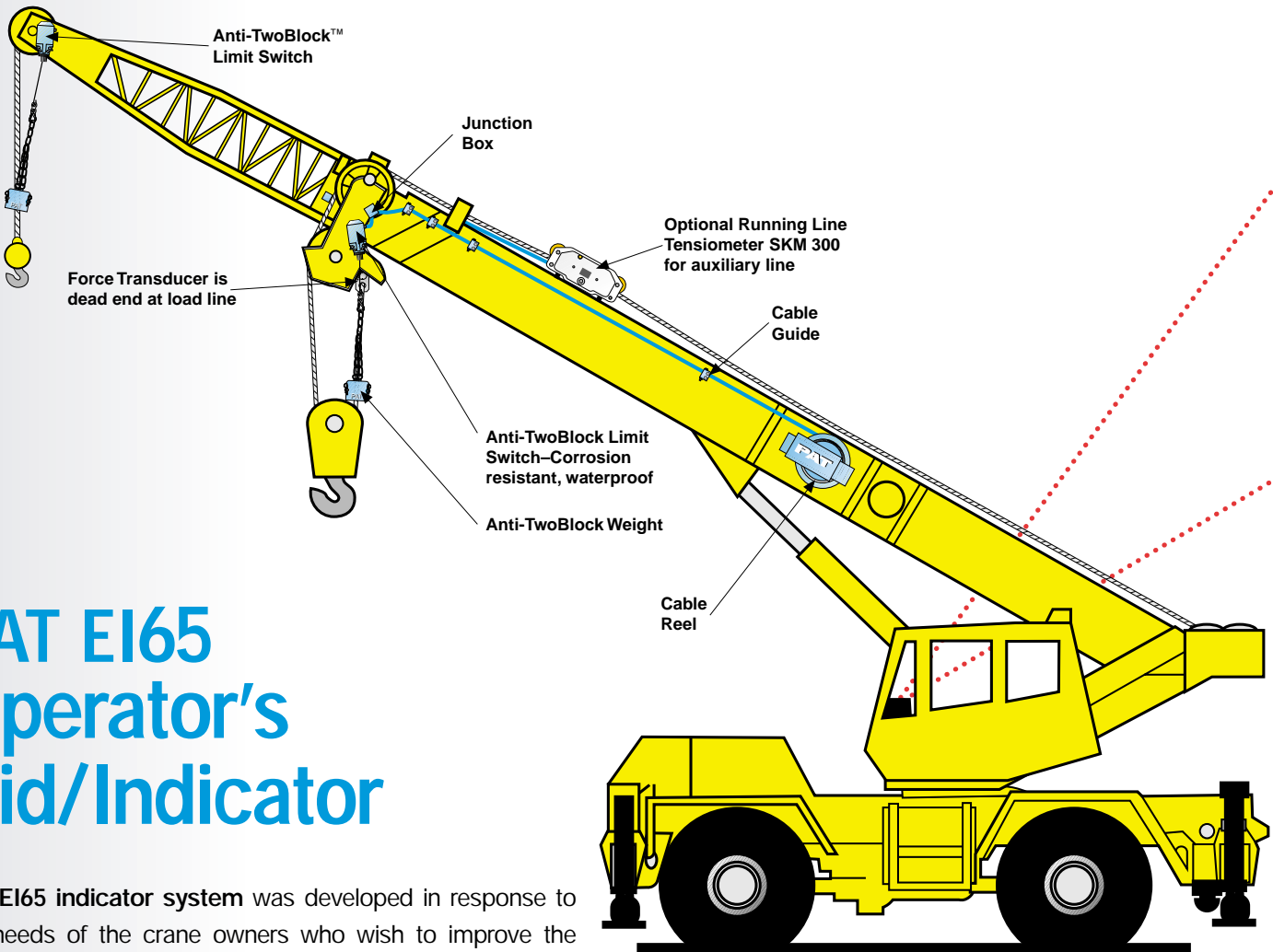
# Load Indicator with Angle/Length/ Radius/Tip Height/Anti-TwoBlock

All in one unit • Easy to operate • Easy to install

## PAT EI65 crane operator aid/indicator

- Continuous display of boom angle, length, radius and load
- Pre-setable limits for all variables with Audio/Visual warnings
- Operator selectable jib configurations
- Load inputs for main and auxiliary winch
- Meets Cal-OSHA, SAE J375 and J376 requirements
- Microprocessor controlled for reliability and accuracy
- Display of hoist selection and parts of line
- Optional function control lockout
- User-friendly foil-front keypad
- Alerts operator to impending two block conditions





## PAT E165 Operator's Aid/Indicator

The E165 indicator system was developed in response to the needs of the crane owners who wish to improve the efficiency and productivity of their operations. Its large LCD continuously displays load, boom angle, length, radius and tip height, along with hoist selection and parts of line. With this data and the crane's working load chart, the operator has the information needed to make lifts within the crane's operating limits. The system also includes an anti-two block warning.

The E165, through its foil-front keypad, permits the operator to pre-set load capacity limits and geometric limits on boom length, angle, height, and operating radius. When any of the limits is reached, the system warns the operator with an audible alarm and a warning light. These features allow the operator to operate the crane in areas of limited headroom or proximity to buildings, electric transmission lines, etc.

The operator's console contains the warning light and horn, programmable controls, and LCD display. The large backlit display is designed for enhanced readability, even in difficult lighting conditions.

Simplicity of design allows the E165 system to be quickly installed by an authorized distributor on all types and sizes of lattice or telescopic boom cranes. Installation and calibration can be completed in one or two days by your local authorized dealer.

**The PAT E165 meets SAE J375, J376 and Cal-OSHA standards. It is fully upgradeable to LMI and is covered by a one-year warranty.**



**Overload Alarm Light** - Red warning light goes on when the load limit set by the operator is reached. Simultaneously, the audible alarm sounds.



**Anti-TwoBlock™ Alarm Light** - Red warning light goes on when the Anti-TwoBlock limit switch is opened; audible alarm also sounds. Hoist up, telescope out, and boom down movements can be disabled with optional function control lockout.



**“Limit” Red Warning Light** - is activated and audible alarm sounds when one of the preset limits is reached.



**“Horn Off” Button** - Pressing this button allows the audible alarm to be silenced for 25 seconds.



**“Select” Button** - Used to select operating mode conditions. Pressing the button brings up menu on the display.



**“Reeving” Selection** - Allows the operator to select the parts of line in use.



**“Limit” Select Button** - Used to set limits for geometry and load.



**“Tare” Button** - Allows the operator to indicate net load – actual load less lifting tackle and block etc.



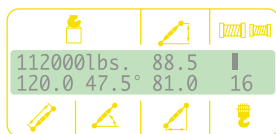
**“OK” Button** - Used to confirm values and data inputs.



**“Up” Button** - Used to increase a numerical value on the display when setting limits and operating conditions.



**“Down” Button** - Used to move through menus or to decrease a numerical value on the display when setting limits and operating conditions.



**Display** - During crane operation, the readout displays actual load, boom height, length, angle, working radius, hoist selection and parts of line. The display provides the operator with set limits and operating mode conditions.

**Audible Alarm** - Sounds under the following conditions:

- Approaching two block condition
- When angle, height, length, or radius limits are reached.
- When load limit is reached.

The audible alarm can be silenced for 25 seconds by pushing “Horn Off” button.

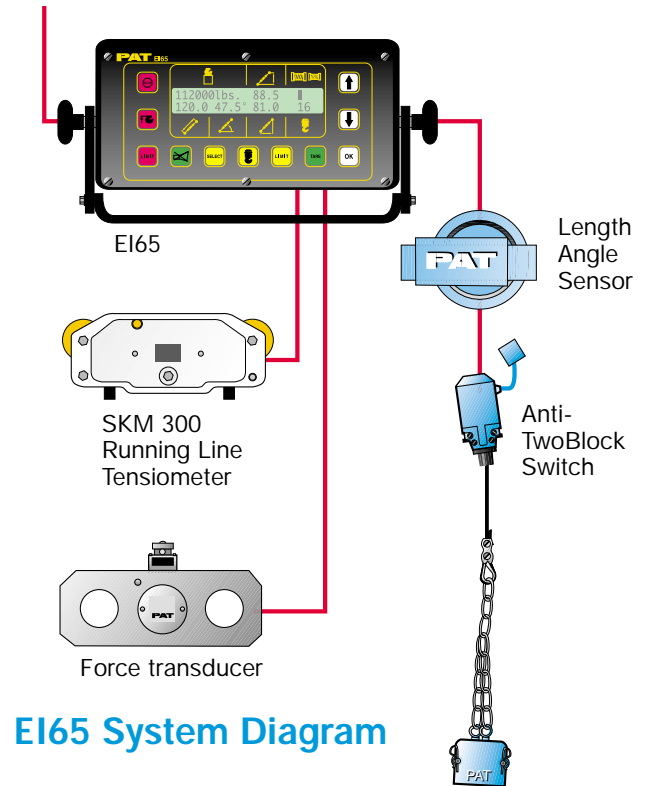
Like all PAT products the EI65 was designed and built to operate under rugged conditions. All parts are modular and interchangeable. Should a malfunction occur repair is fast and simple by PAT or your local stocking distributor.

The upgradeable EI65 is the latest in a full line of modular crane monitoring instruments. Should your requirements change the EI65 can be upgraded to a full LMI System using most of the EI65 components thereby reducing your material cost and installation time.

PAT is an international company with sales & service around the world. In addition to crane products PAT manufactures scales for over road vehicles and computer controlled form and roundness measuring systems for research and development and for automated production line quality control.

PAT's extensive technical background and years of engineering experience is available to all our customers to provide solutions for their technical applications.

Trade-in: Ask your PAT distributor about special trade-in and upgrade programs.



EI65 System Diagram

## Other crane products available from PAT:



PRS 145 LMI

Displays actual/allowable load, load radius, boom angle and length. Allows fast and accurate in-field calibration through operator's graphic console. Features bright, backlit graphic display with integrated bargraph.



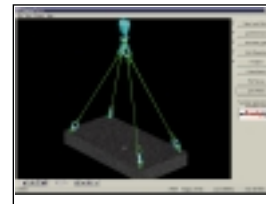
PRS 75EZ

Wireless Multi-sensor Indicator for mobile cranes. Requires no hard wires or cable reels. Provides accurate load measurement. Warns of impending two-block condition.



Compu-Crane

Graphically perform every lift before you start the job. Enter basic site information and Compu-Crane creates site, selects crane and configuration. Simulate the lift, display all obstructions, check clearances, add details to job site.



Rigging Pro

Specify load parameters and hitch type and Rigging Pro calculates the load center of gravity and sling tensions and displays you rigging assembly in 3 dimension.



Load Motion Alert

When the load starts moving an audio alarm sounds and the light flashes warning personnel. Portable and easy to install on any suspended load.



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