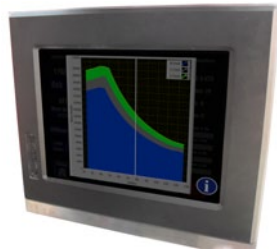


CCM14000 with Touch Screen Features



The Seatrax CCM14000 simplifies the monitoring of primary and auxiliary crane systems, including hydraulic systems, hoists and prime mover. It incorporates a hard wired network of boom angle and hoist load cell sensors that communicate with the display terminal.

The system provides single-point access to a variety of monitoring and communication functions. Rather than scanning gauges and manipulating functions spread throughout the cab, the crane operator can page through screens to monitor systems and perform operations via touch screen buttons.



Important information is replicated across multiple screens.

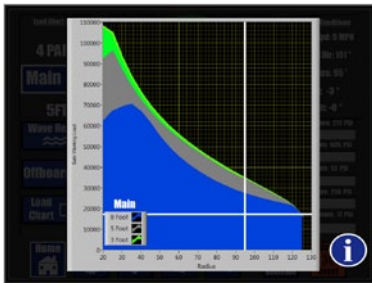
The user-friendly interface, intuitive layout and logical workflow permit operators to learn the CCM14000 quickly with minimal training. It utilizes a touch screen for system navigation: the operator

simply touches onscreen buttons to access desired screens or operations.

Improved Features Include

- Enhanced user interface – modern and easy to navigate touch controls offer crane operators improved assistance in accessing information
- Touch screen menu buttons provide direct access to numerous status, settings and other informative monitoring functions
- Increased data recording offers expanded diagnostic capabilities
- Visual load charts display current lifting conditions
- Utilizes CAN network protocol for simplified wiring
- Expandable feature set
- Ease of field maintenance makes troubleshooting straightforward
- Crane can operate in emergency mode without CCM





CCM14000 Package

- Safe Load Indicator (SLI)
- Actual load
- Visual load charts
- Drum rotation indicators
- Drum speed
- Hoist position bar graph
- High/low hoist limits (with or without override)
- Hook travel
- Engine and hoist hour meters
- Hoist drum reverse rotation warning and prevention
- List and trim indicator for floating facilities
- Rope falls
- Hook load as a percentage of SWL
- Visual and audible alarms providing a clear and continuous warning indicating that the preset limits, typically 90 percent and 100 percent of permitted load, have been exceeded are incorporated into the display.
- Selectable options are provided to change number of falls, sea condition and to activate test functions

Gauges

- Diesel fuel level
- Hydraulic oil level
- Pilot pressure
- Load hoist pressure
- Boom hoist pressure
- Slew pump pressure
- Hydraulic oil temperature
- Engine water temperature
- Engine oil pressure
- Engine tachometer

Additional Options

- Wind speed and direction indicator
- Prime mover supply/output monitoring
- Motion Detection System (MDS)
- Live monitoring system
- Slew limits
- Proximity switches on boom to alert
- Documentation (hydraulic, electrical schematics, user manuals)
- Electric joysticks
- High definition camera system with DVR (up to 4 cameras), Class 1 Div 2
- User login