

PME100

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- Double Redundant Height Limiter

Height Limiting Protection



Functions:



Height



2D envelope monitoring

The ultimate in Height Limiting

Suitable for:

- Excavators
- Mobile Cranes
- Truck Mounted Cranes
- Agricultural Machinery
- Special Equipment

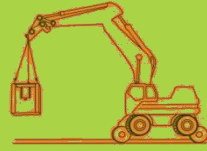
BASIC FUNCTIONALITY

PME100 Double Redundant Version is the ultimate in height limiting technology, creating the safest environment for your operators and plant. This particular system is designed to monitor and control the movement of any articulating construction equipment.

The PME100DR system measures position through true gravity reference sensors to make sure the operator stays within a user/Supervisor defined working envelope. The Double redundant sensors not only monitor the height and angle continually but are constantly checking each other for true accuracy and forming full redundancy encase of damage or failure and will motion cut the machine if a redundancy issue was to ever occur. The system has been developed in response to new standards for example with QR and Aurizon. The valves are fully fail safe and have emergency override facility so a machine could always get off track in an emergency. Compliant Sign packages are also available.

Standard Features:

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|---|---|--|
| • Real Time height throughout the full working envelope | • Available in double redundant version | • Full cab protection, complex shapes can be set in limits |
| • 'Always on' controller monitors and stores events ensuring traceability | • Emergency override control valves | • Warning on approach to limits (audible and visual) |
| • Variant with full 2D envelope controlling depth, maximum and minimum radius | • Failsafe hydraulic motion control | • Controllable override function during digging operations |



Configurable Features

- Telescoping boom inputs allowing for extending booms (eg telehandler)
- Height limit input via 'set to current'; user-defined or pre-set absolute values
- Master override key switch for secure disabling of safety features
- External alarm on reaching height limit
- External beacon provides external indication of system state (ON/OFF)
- 'Crawl' function when close to user-set limits, preventing overshoot
- Upgradable to other PME products



Custom Built Failsafe Manifolds

Sensor and Dual Transducers



Hardware and User Interface

- € 4.3" super-bright daylight viewable landscape HD screen
- € Fully sealed capacitive touch buttons
- € 2 selectable display modes
- € Indicator for safe movement displayed at limits
- € Real-time display of height and 2D envelope (if installed)
- € Icon driven menus and help functions
- € Lockable key switch for supervisor control protocols
- € Access control levels: operators & supervisors
- € On screen display of height, range and depth limits
- € USB, serial and CAN interface
- € Smart-override monitors signals from key-switch to controller
- € Fully sealed sensors with CAN cabling provide superior reliability and signal clarity
- € Simple plug and go M12 connectors for input and output.
- € Tamper evident connectors show ID on screen on failure or disconnection

Standards, Tests and Specification

Full testing, traceability and control on design to ensure the operation is as planned and the functionality as safe as possible.

- Complies with H&S requirements on the machinery directive EN2006/42/EC
- Designed to meet EN474 "Earthmoving machinery – Safety"
- EMC EN13309:2010; EN50121-3:2006
- Tested for vibration, temperature, impact and environmental protection to standards
- Controller tested to IP67 and IP69k, display rated to IP65
- Display daylight viewable (650cd/m²)
- Input voltage 10-32V



I/O Safety Controller