

# PME400

## PME400

- 3D envelope height and slew limiter

**Height & Slew Limiting Protection**



**Functions:**

 HEIGHT	 3-D ENVELOPE MONITORING
 SLEW	 STABILITY

**Suitable for:**

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

### BASIC FUNCTIONALITY

PME400 is designed to control the movement of the machine in all planes; vertical and horizontal, providing a 3D envelope of control around the machine. Offering multiple options for control, this system combines the slew sensing of PME300 with 2D envelope monitoring of PME100 in one integrated solution.

As for other systems using PME, this system comes with a high resolution, daylight viewable screen/input device allowing multiple configurations of the working envelope to be described, monitored and controlled. Motion cut hydraulics allow both monitoring and control on the machine movement.

The PME400 system is also available in a double redundant version for working in the rail corridor and is compliant to Category 4 requirements.

#### Standard Features

Real time display of slew with dynamic machine position

Real time display of height and height limit (optional depth/cab as required and set)

Monitors and controls machine position remaining within set limits

Warning on approach to limits (audible and visual)

Failsafe version as standard with double redundant optional

'Set-to-touch' virtual wall technology allows complex 3D shapes to be controlled

# PME400



## Configurable Features

Operating zones displayed to the operator

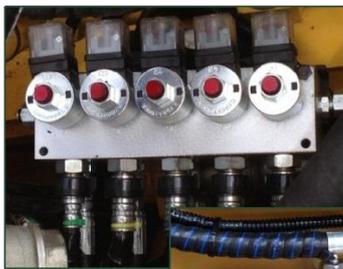
Upgradable to other PME configurations through software (some hardware may be required)

Telescoping boom – reeling drum or sensors to set different boom lengths

Function to allow operator definition of any complex shape in all planes

Virtual wall function describing restricted zone in the vertical plane

Multiple walls possible – slew restricted zones to both sides of equipment



**Custom Built Failsafe Manifolds**

**Sensors and Dual Transducers**



## 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.

Double Redundant Australian Category 4

Complies with H&S requirements on the machinery directive EN2006/42/EC

Designed to meet EN474; BS7262; EN10567; EN13000:2010; EN13844; EN12077; EN62061; EN60204:2006

Complies with LOLER requirements for UK lifting  
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/m<sup>2</sup>)

Input voltage 10-32V

Power requirements as installed.

System off: 2mA. 12V system: 1A, 24V system: 500mA

## Set-up and Machine Data

CAN sensor input with separable ID on each component

4GB storage of operating data (approx 12 months usage). Download to remote PCs as required

## Hardware and User Interface

4.3" super-bright daylight viewable landscape HD screen

Fully sealed capacitive touch buttons. 3 selectable display modes

Icon driven menus and help functions

Access control levels: operators & supervisors 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



**I/O Safety Controller**