

# PME300 & PME300+

## PME300 & PME300+



### - Slew Limiter & Enhanced Slew Controller



#### Functions:



Slew



Stability

#### Suitable for:

- Excavator (multiple articulations possible)
- Telehandler
- Mobile Cranes (to EN13000.2010)
- Truck-mounted cranes
- Agricultural machinery
- Special purpose machines

#### **BASIC FUNCTIONALITY:**

PME300 is a controller designed to monitor and prevent slewing machinery moving into a user-defined zone. PME300+ provides the basic functionality with the additional ability to work within a user-described complex shape or with a “virtual wall” at one or both sides of the equipment. Both systems are designed to control the machine within the horizontal (slewing) plane and do not control vertical movement.

#### **Standard Features**

##### **PME300**

- Real time display of slew position with dynamic machine position
- “Always on” controller monitors and stores machine state ensuring traceability
- System configured for motion cuts as standard
- Monitors and controls machine position remaining within set limits (motion cut required)
- Warning on approach to limits (audible and visual)
- SIL1 safety version as standard. SIL2 as an option (per EN62061)
- Temporary override allows operators movement to safe conditions during limit states

##### **PME300+ (as for PME300 plus the following features)**

- Fully described working envelope (2D horizontal) allowing any shape to be described
- All articulations and extensions movement included in slew calculation allowing a richer envelope control.

WebbairProlec Pty Ltd, 17 Keppler Circuit, Seaford Vic 3198

T: 1300 092 995 E: sales@webbair.com.au W: www.webbair.com.au

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## - Slew Limiter & Enhanced Slew Controller

### Configurable Features

#### PME300

- Slew right & left limit set and displayed on screen
- Safe zones displayed to the driver distinct from restricted zone, in real time
- Multiple languages
- Multiple views possible showing information in alternate configurations
- Upgradable to other PME configurations through software (some hardware may be required)

#### PME300+ (as for PME300 plus the following features)

- Telescoping boom – reeling drum or sensors to set different boom lengths
- Function to allow operator definition of any complex shape on slew.
- Multiple virtual walls possible – slew restricted zones to both sides of equipment

### Hardware & User Interface

- 4.3" super-bright daylight viewable landscape HD screen
- Fully sealed capacitive touch buttons
- Icon driven context specific menus and help functions
- Access control levels: operators, supervisors and installers
- USB, serial and CAN interface

- Mappable and expandable I/O on controller
- Smart override monitors signals from key-switch to controller allowing context specific control
- Multiple sensor types available depending on machine size, shape and configuration (PME300+ only)
- 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/disconnect

### Set-up & Machine Data

- CAN sensor input with separate ID on each component
- 4GB storage of operating data (approx. 12 months usage) download as required
- Configurator allowing input of machine data off site and upload to machine on install
- Default settings shipped with each system can be reconfigured as needed.

### Standard Terms & Specification (generic systems; specific details may vary according to function)

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

- Complied 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