PME300 & PME300+

– slew limiter and enhanced slew controller

SPECIFICATION SHEET

PRO safe

Functions

SLEW

STABILITY

\+

2D DIGGING

(When combined with PME Machine Control)

Suitable for

- Excavators (multiple articulations possible)
- Telehandlers
- Mobile cranes (to EN13000:2010)
- Truck mounted cranes
- Agricultural machinery
- Special purpose machines

FUNCTIONALITY

PME300 and 300+ are slew limiters that monitor and control the radial motion of any slewing equipment. These systems will check the machine's movement relative to a pre-determined "safe" zone and warn of or control the machine's movement when approaching the limit. PME300 provides a simple zone of control using left and right limits whereas 300+ allows complex geometry and dual "virtual" wall control as needed. The system uses Prolec's proprietary "engine" so is independent of machine type allowing any slewing and articulating machinery to be monitored including fixed installations (e.g. deck cranes). The system will also provide full logging of operation and driver behaviour for later retrieval and play back and stores up to a year's worth of data. When combined with suitable hydraulic controls the system will lock out movement into pre-defined unsafe situations.

Benefits

- **Fits any slewing equipment with virtually no hardware change**
- **Easily upgraded to include height, load or guidance functions**
- **Fully compliant to relevant codes**
- **300+ Monitors complex shapes and dual walls**
- **Compatible with OEM design requirements for slew control**

Prolec Ltd @ProlecLtd YouTube Prolec Ltd. LinkedIn Prolec Ltd.

+44 (0)1202 681190 www.prolec.co.uk sales@prolec.co.uk f. +44(0)1202 677909

Prolec Ltd. 25 Benson Road, Nuffield Industrial Estate, Poole, Dorset BH17 0GB United Kingdom

Your safety, your profit, our commitment

PME300 & PME300+

– slew limiter and enhanced slew controller

SPECIFICATION SHEET

Standard Features

- Real time slew position with dynamic machine position
- Audible and visual alarm at or near slew limits
- Full data logging of all actions including alarms and limit warnings
- Override for supervisors on screen
- Simple slew right/left limits input via screen
- Safe zone shown in real time on screen
- Context specific icons display status on screen
- Hydraulic control on movement at limit (hardware required)
- Full cab protection including complex shapes and movements possible (300+)
- Full monitoring of booms and articulations (300+)

Optional features

- External keyswitch, alarm and beacon inputs possible
- Multiple and complex boom configurations possible (may need software changes)
- Alternative language files selectable
- Upgrades to other safety functions (PME 400, 500) and guidance available with limited hardware update
- Alternative angle sensor inputs possible (hardware required)
- Fail safe variants available (hardware required)
- Telescoping boom inputs (300+)
- Upgrade to ALO working off track (Network Rail Standards) with appropriate safe systems of work (consult Prolec prior to implementing ALO off track work)

Standards, Tests and Specification

- Complies with H&S requirements on the machinery directive EN2006/42/EC
- Designed to meet EN474; BS7262; EN10567; EN13000:2010; EN13849; 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 (IO module) tested to IP69k
- Display tested to IP65
- Display daylight viewable (650cd/m2)
- Input voltage 10-32V
- Power requirements as installed. System off: 2mA; 10V system: 1A; 32V system: 500mA (power requirements may vary dependant on hardware configuration)
- Software design following MISRA development guidelines
- Operating system independent to ensure SIL2 functionality
- Operating temperature range -20ºC to 65ºC
- Touch button (capacitive) input on display
- CAN communications protocol
- M12 connectors
- USB 2 input for data transfer

Configurator

		Optional Adders (add to part number)								
OPTIONS	Base Part Number	Motion Cut (slew only)	SIL2	External Alarm	External Beacon	Fail Safe	External Key-switch 1 = Supervisor 2 = Override	Extending SECTION X = R (Reeler) S (Prox Switch)	Basic Display	4.3" Daylight Viewable Screen
Slewing machinery	**PME300**	Standard	2	A	B	G	KX	N/A	Standard	4
Enhanced Slew	**PME300C+**	Standard	2	A	B	G	KX	ZX	C	Standard
Slewing Machinery plus complex wall	**PME300+M/T**	Standard	2	A	B	G	KX	ZX	C	Standard

Prolec Ltd @ProlecLtd YouTube Prolec Ltd. LinkedIn Prolec Ltd.

+44 (0)1202 681190 www.prolec.co.uk sales@prolec.co.uk f. +44(0)1202 677909

Prolec Ltd. 25 Benson Road, Nuffield Industrial Estate, Poole, Dorset BH17 0GB United Kingdom

Your safety, your profit, our commitment