

PME200

– rated capacity and working envelope monitor

SPECIFICATION SHEET



PRO | safe

Functions



HEIGHT



ENVELOPE
MONITORING



LOAD
CONTROL



STABILITY



2D DIGGING

(When combined with PME
Machine Control)

Suitable for

- ▶ Excavator (multiple articulations possible)
- ▶ Telehandler (including telescoping booms)
- ▶ Mobile cranes (to EN13000:2010)
- ▶ Truck mounted cranes
- ▶ Backhoe including height control on all tools
- ▶ Forklifts

FUNCTIONALITY

PME200 is a load moment indicator compliant to UK and EN standards to ensure the safe operation of lifting equipment. The system will also provide guidance and control on the machine' operating height limit, provide cab protection, monitor machine bucket depth and control reach on articulating equipment. The system is configured using Prolec's proprietary "engine" so will model any lifting plant by simple set-up changes and utilises robust, easily viewed, hardware to provide maximum control on lifting operations. 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 lifting equipment with virtually no hardware change
- ▶ Full utilisation of capacity throughout the lifting range
- ▶ Easily upgraded to include slew or guidance functions
- ▶ Fully compliant to relevant codes
- ▶ No cost option to monitor height and load
- ▶ Configurable using input data or OEM load charts

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PROLEC
Your safety, your profit, our commitment

PME200

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Standard Features

- ▶ Real time lifting capacity displayed through the range
- ▶ True load on hook displayed during lift
- ▶ Audible and visual alarm at or near overload and limits
- ▶ Full data logging of all actions including alarms, overload and limit warnings
- ▶ Displays safe lift options when near or at overload
- ▶ Multiple lift points available with set-up
- ▶ Override for supervisors on screen
- ▶ Variable or pre-set height limits can be input and locked
- ▶ Context specific icons display status on screen
- ▶ Hydraulic control on movement at limit (H, E, L variants)
- ▶ Control on depth, maximum and minimum radius (E variant required)
- ▶ Full cab protection including complex shapes and movements possible (E variant required)
- ▶ Multiple duties possible (up to 8 without extra hardware) allowing maximisation of lift envelope
- ▶ Dig mode feature makes system dormant when excavating

Optional features

- ▶ External keyswitch, alarm and beacon inputs possible (UK law requires external alarm fitted)
- ▶ Multiple tool options allow variance of load chart with tool
- ▶ Telescoping boom inputs
- ▶ Multiple boom configurations possible (may need software changes)
- ▶ LOLER (UK) expiry reminders
- ▶ Alternative language files selectable
- ▶ Upgrades to other safety functions (PME 500) and guidance available with limited hardware update
- ▶ Alternative angle and load sensor inputs possible (hardware required)
- ▶ Fail safe variants available (hardware required)

Standards, Tests and Specification

- ▶ 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 (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 -20°C to 65°C
- ▶ Touch button (capacitive) input on display
- ▶ CAN communications protocol
- ▶ M12 connectors
- ▶ USB 2 input for data transfer

Configurator

OPTIONS	Optional Adders (add to part number)											
	Base Part Number	Motion Cut Height (only)	Motion Cut Envelope (height, min/max radius, depth)	Motion Cut Lifting	SIL2	External Alarm	External Beacon	Fail Safe	External Keyswitch 1 = Supervisor 2 = Override	Extending section X = R (Reeler) S (Prox switch)	4.3" Daylight Viewable Screen	Multiple Lifting Duties X = Number of duties (multiples of 8)
Single boom (e.g crane/telehandler)	PME200C	H	E	L	2	A	B	G	K	ZX	Standard	DX
Mono boom (excavator)	PME200M	H	E	L	2	A	B	G	K	ZX	Standard	DX
Triple boom (excavator/crane)	PME200T	H	E	L	2	A	B	G	K	ZX	Standard	DX
Multiple articulations	PME200X	H	E	L	2	A	B	G	K	ZX	Standard	DX