



# Prolec PME 100-500 Quick Start Guide

Plant Safety Solutions  
Take the guesswork out of Safety

[www.prolec.co.uk](http://www.prolec.co.uk)  
[service@prolec.co.uk](mailto:service@prolec.co.uk)  
+44 (0)1202 441 000



# Limits menu how to set limits

**1** Press **Start** to confirm that the correct safety features are enabled for the job and work site.



Fig. 1

**2** Press any button to access the **top menu**.



Fig. 2

**3** From the **top menu** (Fig. 3), select the **limits menu** by pressing the top left hand button.



Fig. 3

**4** Select the limit type you want to set from the menu displayed below. (Fig. 4).



Fig. 4

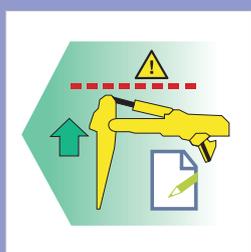
# Height limits menu

1 From the **limits menu** (Fig. 4), select **height limits** (top left button).



Fig. 5

2 How to set a height from a **known value** (Fig.5).



2a Select **enter a height from a known value** by selecting the middle left button.

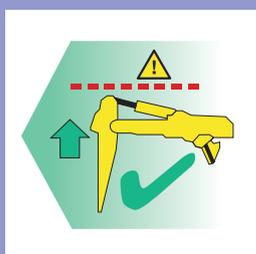


2b Enter a **known value** using the arrow keys and press the green tick to confirm.



2c Press the green tick to confirm.

3 How to set a height limit using **current highest point** (Fig. 5).



3a Raise equipment to height limit and select **set limit using highest part of equipment** (bottom left button).



3b Press the green tick to confirm.

# Max / min radius menu

From the **limits menu** (Fig. 4), select **max radius** (middle left button) or **min radius** (middle right button).

Turn monitoring on and off

Enter a known value

Set radius limit using current radius of equipment

Exit

Fig. 6

## 1 How to set a radius from a **known value** (Fig. 6).

**1a** Enter a **known value** using the arrow keys and press the green tick to confirm.

**1b** Press the green tick to confirm.

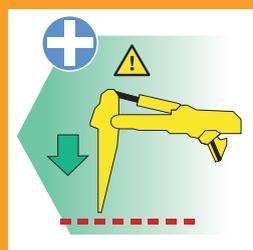
## 2 How to set a **radius limit** using **current furthest / nearest point**.

**2a** For **max radius**, extend equipment out to required radius limit. Then select **set limit using current furthest point** for **max radius** (bottom left icon).

**2b** For **min radius**, move equipment into the required radius limit. Then select **set limit using current nearest point** for **min radius** (bottom left icon).

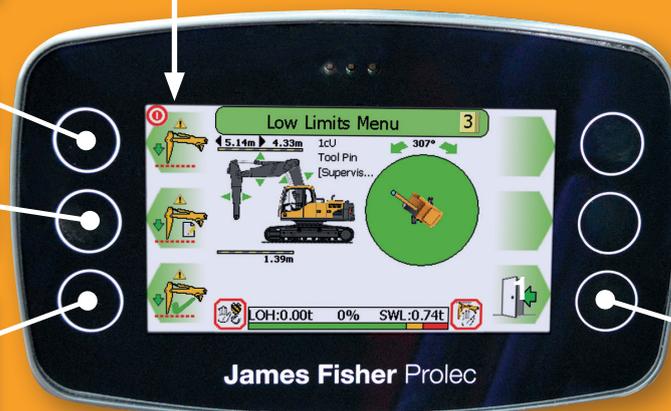
**2c** In both cases, press the green tick to confirm.

# Low limits menu



From the **limits menu** (Fig. 4) select **low limits menu** (bottom left).

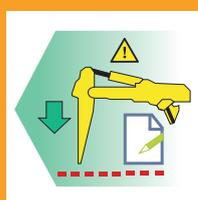
- Turn monitoring on and off
- Enter a known value
- Set low limit using current lowest point of equipment



Exit

Fig. 7

## 1 How to set a low limit using a known value (Fig. 7).



**1a** Select **enter low limit from a known value**.

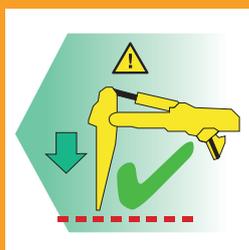


**1b** Enter a **known value** using the arrow keys and press the green tick to confirm.



**1c** Press the green tick to confirm.

## 2 How to set a low limit using current lowest point.

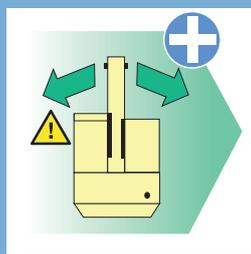


**2a** Lower the equipment to **low limit and select set limit using current lowest part of equipment** (bottom left button).



**2b** Press the green tick to confirm.

# Slew limits menu



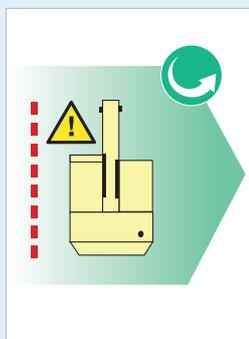
From the **limits menu** (Fig. 4) select slew menu (top right button).



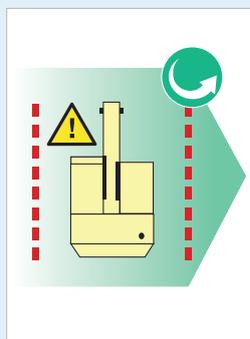
Fig. 8

## Slew types

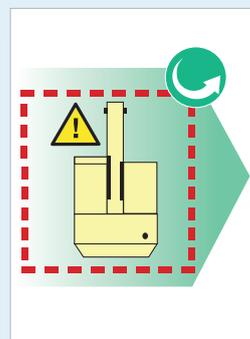
In the **slew menu**, the top left hand button turns **monitoring** on and off. Pressing the top right hand button cycles through **slew types** (see below). Once a slew type is selected, press the bottom left hand button to start the setup procedure and follow the on screen instructions.



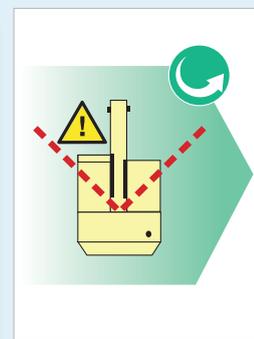
Single virtual wall limiting



Twin virtual wall limiting

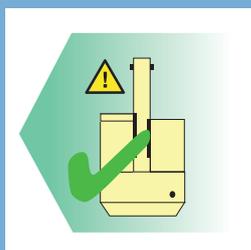


Multipoint envelope restricting

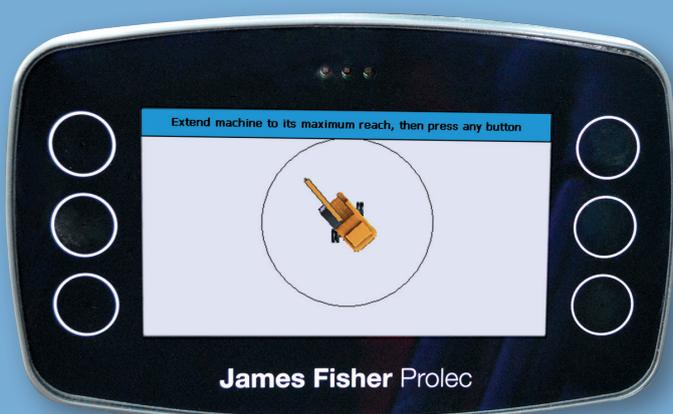


Angular slew limit setting

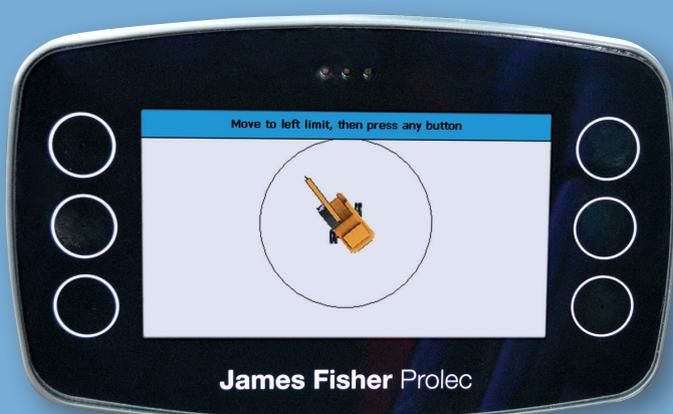
**1** How to set the **slew limit** using **equipment's reach** (Fig. 8).



**1a** With a **slew type** selected, press **start the setup procedure** (bottom left hand button).

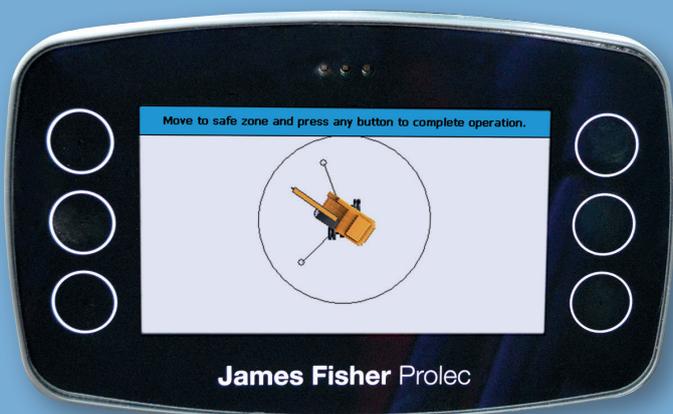


**1b** Extend the machine to its maximum reach and press any button.



**1c** Follow the instructions on the screen, moving to each required limit.

**1d** Once machine reaches limit, press any button to move to the next instruction.



**1e** With all limits set, move to a safe zone and press any button to complete setup.

## Enabled / disabled indicators

1		2		<ul style="list-style-type: none"> <li>1 Rated capacity indicator (RCI).</li> <li>2 No motion control on overload.</li> </ul>
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1		2		<ul style="list-style-type: none"> <li>1 Rated capacity control (RCC).</li> <li>2 Motion control on overload.</li> </ul>
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1		2		<ul style="list-style-type: none"> <li>1 Machine envelope indication (MEI).</li> <li>2 No motion control on limit.</li> </ul>
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1		2		<ul style="list-style-type: none"> <li>1 Machine envelope control (MEC).</li> <li>2 Motion control on limit.</li> </ul>
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## Warnings

		<ul style="list-style-type: none"> <li> <b>Green:</b> Operation within the safe working load.</li> </ul>
		

		<ul style="list-style-type: none"> <li> <b>Amber:</b> Approaching overload limit (only indicated when lifting mode is active).</li> </ul>
		

		<ul style="list-style-type: none"> <li> <b>Red:</b> Rated capacity indication (RCI). No motion control on overload.</li> </ul>
		

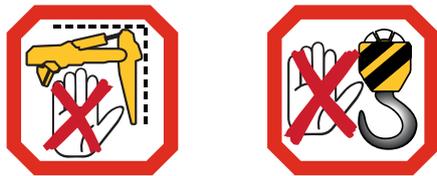
## Warnings (continued)



**Red:** Stability control overload or hydraulic limitation control.



Soft override – an action to temporarily disable motion control.



Master override keyswitch – an action to disable motion control whilst key is active.

## RCI / RCC limits



**ON:** when operating with an active RCI / RCC limit, the indicator will NOT have a cross on it.



**OFF:** when operating with an inactive RCI / RCC limit, the indicator will have a cross on it.

## Machine envelope control limits



**ON:** when operating with an active machine envelope control limit, the indicator will NOT have a cross on it.

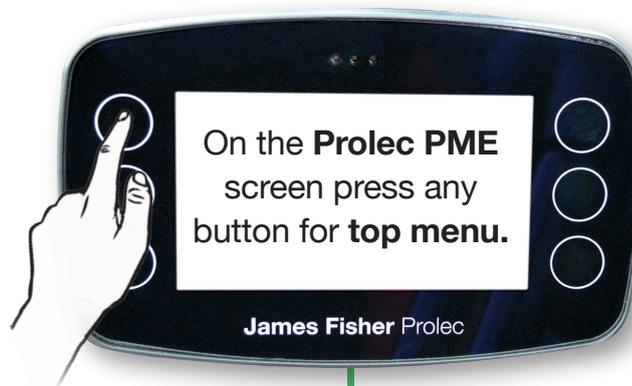


**OFF:** when operating without machine envelope control limits, the indicator will have a cross on it.

# PME problem solvers

## Dig mode (non-lifting mode):

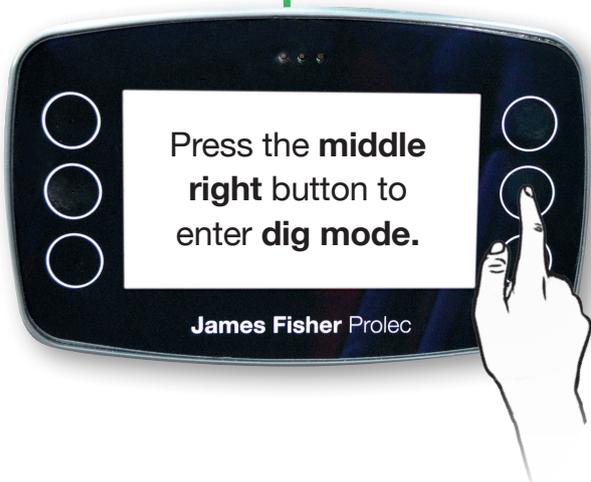
Is your alarm going off while you're not lifting?



Does the middle right icon have a hook with a green tick on it or a green circular arrow?

Yes

Place your equipment on the floor.



No

Are there any other warnings or lights?

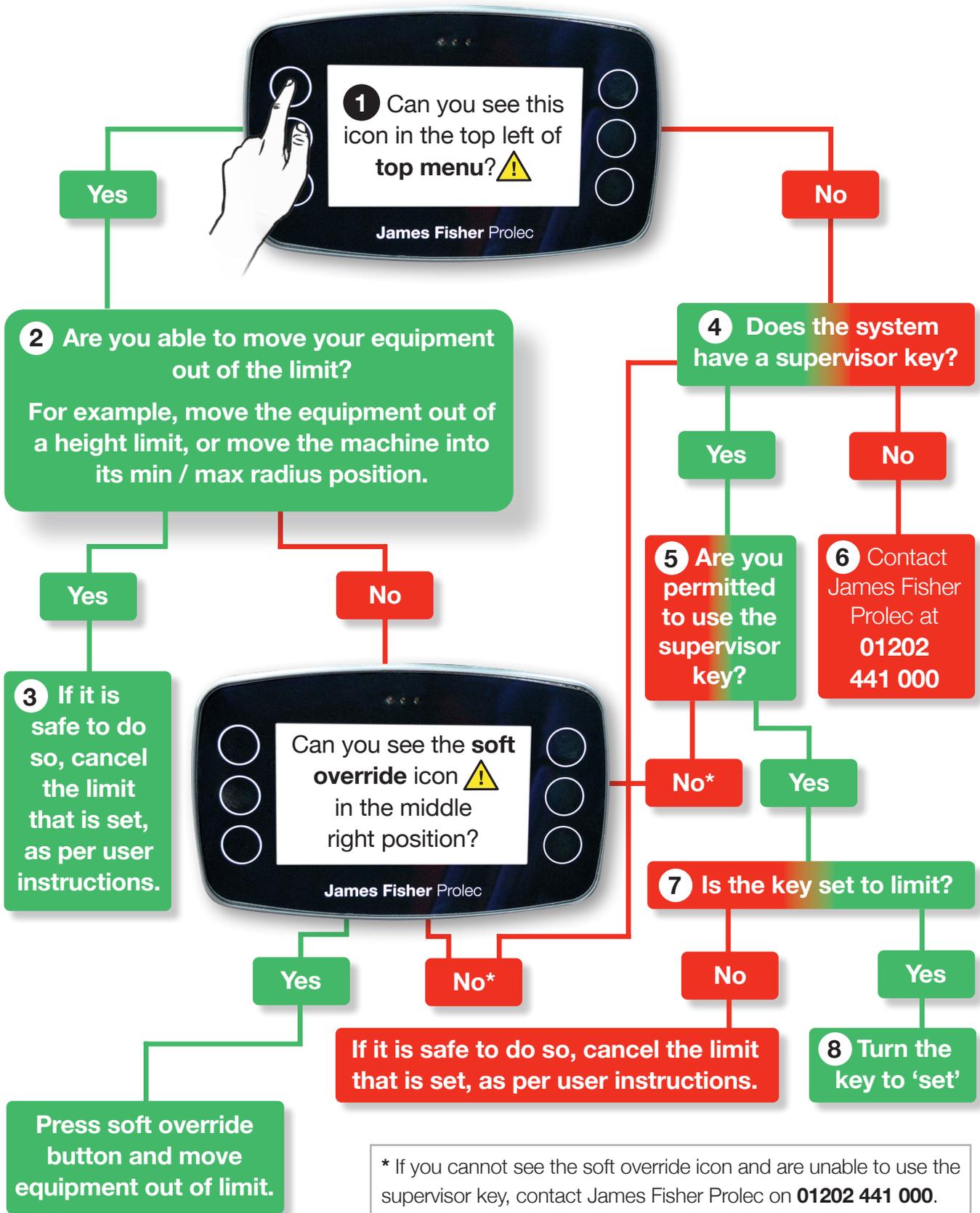
Yes

Do you have a limit set?  
Please refer to the limit guide.

No

Contact James Fisher Prolec on  
**01202 441 000**

**Stuck in a limit:** Does the system error say you've reached a limit, for example max height?





Let Your Journey  
Begin.

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[service@prolec.co.uk](mailto:service@prolec.co.uk)  
+44 (0)1202 441 000

