

## Products

**PRO | grade**

MACHINE GUIDANCE

- Digmaster
- Digmaster Pro
- pcX-3D
- pcX-3D Drilling & Piling

**PRO | safe**

SAFE & EFFICIENT PLANT

- Liftwatch 5
- Liftwatch PC
- Heightwatch 6
- Heightmaster
- EA Heightmaster +
- Motion Control System
- Rangemaster
- Slopemaster
- TMI
- Truckwatch

**PRO | Load**

ON BOARD WEIGHING

- Weighloader
- Weighloader ADT



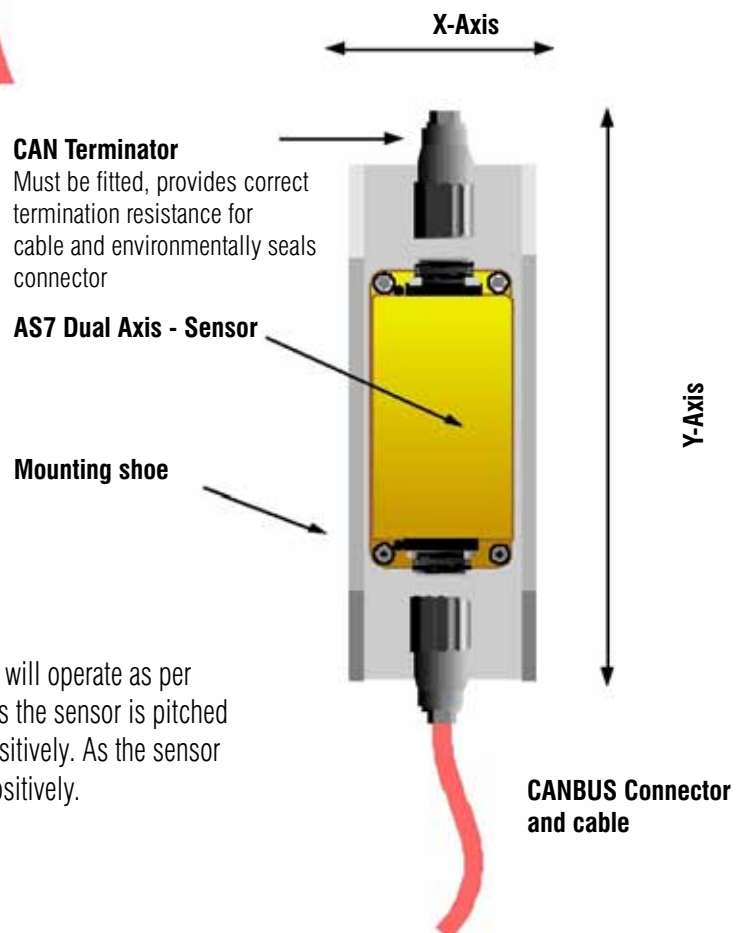
Display



### System Components

The Piling Monitor System PM1 consists of the following components:

- ✓ CAN AS7 Dual Axis Tilt Sensor – Mounted on the vibration hammer
- ✓ Display – A computer controlled unit giving visual indication in the form of a cross indicating proximity to target angle and an X Y angle display
- ✓ Sensor Cable – 6 way connector
- ✓ Power Cable – 3 way connector
- ✓ CAN Cable terminator
- ✓ Sensor Mounting Plate



The sensor orientation shown will operate as per the diagram on the display. As the sensor is pitched forwards, then Y increases positively. As the sensor rolls right then X increases positively.

## Operation



➤ SET - Button

➤ ZOOM - Button

### Monitor Operation

The LEDs indicate the X and Y position detected by the sensor at the top of the mast. The actual angle measured by the sensor at the top of the mast is displayed via the 7 segment displays. When the sensor is at 0° and the SET function is not in use then the centre LED (or Target LED) is illuminated. Monitor Funktionen

### Zoom Function

The LED cross has three selectable increments of 1°, 5° and 10°. These increments are selected using the ZOOM button. An LED indicator refers to which ZOOM is selected.

### Vertical Pile Driving / Drilling

When driving a pile vertically both displays can be used for guidance. The SET button must not be pressed – the SET LED will be off if this is the case.

### Inclined Pile Driving

The monitor allows a pile to be driven at an angle other than 0°.

To set a mast angle manoeuvre the mast until it is at the required X and Y angles and press the SET button. This causes :

- The Angle displays freeze at the set angle
- The target LED is set to the angle displayed. The ZOOM function will still operate. Any deviation from the set angle will be shown on the LED cross.
- The SET LED is illuminated.

Pressing the SET button again releases the display, switches off the SET LED and returns the target LED to 0°.

Manufactured by:

Prolec Ltd

25 Benson Road

Nuffield Industrial Estate

Poole BH17 0GB

United Kingdom

Tel: +44 (0)1202 681190

Fax: +44 (0)1202 677909

email: sales@prolec.co.uk

www.prolec.co.uk

