

### Features

- ❑ Full 360 degree range ( $90^\circ \times 4$ ).
- ❑ Easy to read LCD display which intelligently flips over when the unit is upside down.
- ❑ Maximum accuracy of  $\pm 0.1^\circ$  and maximum resolution of  $0.1^\circ$
- ❑ Precision, machined aluminum frame.
- ❑ Unit can be recalibrated to factory accuracy in the field without special tools or fixtures.



### General Description

The *PRO 360 Digital Protractor* from *SmartTool Technologies* is a revolutionary measuring tool that provides an immediate, digital reading of all angles in a  $360^\circ$  range. The unit utilizes a patented, liquid-filled sensor combined with precision measurement circuitry to provide unparalleled accuracy and stability.

Typical applications include:

- *Drive shaft alignment*
- *Aircraft flap calibration*
- *Setup of precision machines*
- *Road or rail-track layout*
- *Satellite or aerial alignment*

A precision machined aluminum frame provides a rigid, lightweight, ultra-precise platform for extremely accurate measurements. The frame is grooved along

the bottom surface to facilitate use with round objects such as pipes or shafts and incorporates threaded holes on the bottom for rigid attachment if desired.

The front panel buttons can be used to capture desired readings or to designate an alternate reference surface from which subsequent angles are then measured. The unit can also be easily recalibrated in the field to factory accuracy using any available flat surface.

The unit operates for up to 500 hours on a single 9V battery, incorporates an automatic power down feature, and ships standard with a rigid plastic case.

### Physical and Electrical Specifications

| Parameter            | Specification         |
|----------------------|-----------------------|
| <b>Range</b>         | Full 360°             |
| <b>Accuracy</b>      |                       |
| 0° +/-10°            | +/- 0.1°              |
| 90° +/-10°           | +/- 0.1°              |
| Other angles         | +/- 0.2°              |
| <b>Resolution</b>    |                       |
| Display              | 0.1°                  |
| <b>Time Constant</b> | 0.4 seconds, typical  |
| <b>Power Supply</b>  | Standard 9VDC battery |

| Dimensions               |   |
|--------------------------|---|
| Width                    | 6.015" (152.8mm)                                      |
| Height                   | 1.9" (48.3mm)   |
| Depth                    | 1.215" (30.9mm)                                       |
| <b>Mounting Holes</b>    | 2 on Bottom of Rail                                   |
| Thread Size              | 6-32  |
| Location                 | Centered on bottom of rail,<br>4.125" (104.8mm) apart |
| <b>Weight</b>            | 10.4 oz (295 gm)                                      |
| <b>Temperature Range</b> |   |
| Operating                | 23 to +122°F (5 to +50°C)                             |
| Storage                  | -4 to +149°F (-20 to +65°C)                           |

**Notes:**

- 1) Specifications are at 77°F (25°C) unless otherwise stated.
- 2) Average over 360 degrees



### Ordering Information

| Description                | Order Part Number |
|----------------------------|-------------------|
| PRO 360 Digital Protractor | 09429606          |

Please contact us below for pricing and availability.

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