

AngleStar® Digital Protractor

Model DP-45

The AngleStar® Digital Protractor Model DP-45 provides instant digital display of level, angle and tilt. Consists of a rugged electronic sensor, custom circuitry and liquid crystal display in an easy-to-use, hand held battery powered package. Features include alternate reference and display hold. Digital display eliminates the need to interpret a bubble or vernier scale.

Features

- ☐ **Reads in degrees**
- ☐ **Alternate reference (floating zero)**
- ☐ **Display hold**
- ☐ **High impact plastic carrying case**

Applications

- ☐ **Driveshaft maintenance**
- ☐ **Antenna positioning**
- ☐ **Race cars**
- ☐ **Machine tooling**

1. **ON/OFF** The instrument is powered by a single push of the ON/OFF button. Power is removed by a second push of the same button or after a 10 minute time out period.
2. **HOLD** The display reading on the LCD is retained and flashes when the HOLD button is depressed. Push again to release hold feature.
3. **ALT REF (Floating Zero)** Alternate reference allows you to zero the digital readout anywhere within its range for a quick and accurate measurement of deviations from a reference surface.
4. **LO BAT** LO BAT is displayed on the LCD when the battery voltage drops below 7 volts. The battery should be replaced when this condition exists. Low battery voltage may affect accuracy.
5. **MINUS SIGN** The minus sign (-) indicates an angle in the counterclockwise direction from zero. Absence of the minus sign indicates an angle clockwise from zero.
6. **OVER RANGE** When the instrument is used at an angle that exceeds its measurement range ($\pm 55^\circ$ from level, null) no angular reading will appear on the LCD and OVER RANGE will flash.
7. **ALT REF** Depressing the ALT REF button will zero the display reading to a new reference and "ALT REF" will be displayed on the LCD. A second push of the ALT REF will return the instrument to normal, or gravity referenced mode.



Performance Specifications

Range	$\pm 45^\circ$
Resolution	$\pm 0.1^\circ$
Linearity	$\pm 0.1^\circ$ (0° to 10°) 1.5% of reading (10° to 45°)
Repeatability	$\pm 0.1^\circ$
Cross Axis Error	<1% up to 45° cross axis angle
Voltage Supply	9 volt battery
Battery Life	100 hours approx.
Temperature Range	
Operating	0° to 65°C
Storage	-40° to 65°C
Weight	12.3 oz (349 gms)

Dimensions in (mm)

