



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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)

