

# AngleStar® DP-45 Digital Protractor



- Digital display of angle in degrees
- Battery powered
- Alternate reference (floating zero)
- Display 'Hold' function
- High impact plastic frame
- Soft carrying case



## DESCRIPTION

The **AngleStar® DP-45 Digital Protractor** is a handheld, portable angle measurement instrument. Consisting of a rugged electronic sensor, custom circuitry and liquid crystal display, this easy-to-use device provides instant digital display of the angle, eliminating the interpretation errors associated with bubble levels and mechanical protractors.

The frame of the DP-45 is made from a high impact plastic with a 'V' groove profile, making it ideal for measuring both flat and curved surfaces. The 'Alternate Reference' function allows the DP-45 to be 'zeroed' at any angle within the measurement range, enabling the measurement of compound angles. Other features include display hold, low battery warning and over-range indication.

Also see our other models, **AngleStar® Protractor System (APS)** (handheld digital protractor), **AccuStar® Electronic Clinometer** (4 standard input/output configurations), and **AccuStar® IP-66** (2-wire loop powered angle transmitter).

Measurement Specialties, Inc. (NASDAQ MEAS) offers many other types of sensors. Data sheets can be downloaded from our web site at: <http://www.meas-spec.com/datasheets.aspx>

MEAS acquired Schaevitz Sensors and the **Schaevitz®** trademark in 2000.

## FEATURES

- Easy to read LCD digital display
- Alternate reference (floating zero)
- 100 hour battery life
- 0° to +65°F operating range

## APPLICATIONS

- Driveshaft maintenance
- Antenna position
- Race cars
- Machine tooling

# AngleStar® DP-45 Digital Protractor

## PERFORMANCE SPECIFICATIONS

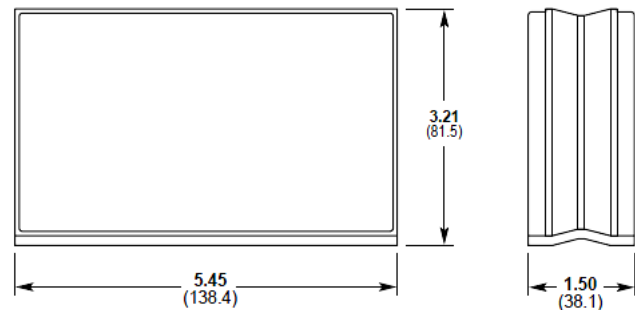
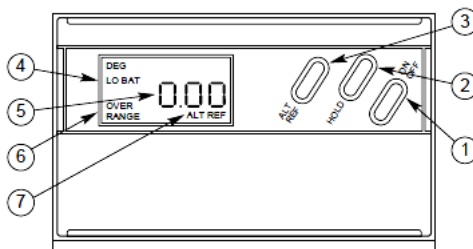
ELECTRICAL	
Range	±45.0°
Resolution	±0.1°
Linearity	
0 to 10°	±0.1°
10° to 45°	±1.5% of reading
Repeatability	±0.1°
Cross axis error	<1% up to 45° cross axis angle
Voltage supply	9 volt battery
Battery life	100 hours (approx.)
ENVIRONMENTAL/MECHANICAL	
Temperature range	
Operating	0 to +65°C (32 to +149°F)
Storage	-40° to +65°C (-40 to +149°F)
Weight	12.3 ounces (345 grams)

### Notes:

All values are nominal unless otherwise noted!

## DIMENSIONS AND FUNCTIONS

- 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.
- HOLD** The display reading on the LCD is retained and flashes when the HOLD button is depressed. Push again to release hold feature.
- 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.
- 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 exits. Low battery voltage may affect accuracy.
- 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.
- OVER RANGE** When the instrument is used at an angle that exceeds its measurement range (±55° from level, null) no angular reading will appear on the LCD and OVER RANGE will flash.
- 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.



Dimensions are in inches (mm)

# AngleStar® DP-45 Digital Protractor

## ORDERING INFORMATION

MODEL	MEASUREMENT RANGE	PART NUMBER
DP-45	±45°	02475-01

## TECHNICAL CONTACT INFORMATION

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