

## Sparco SPR01490

# Sparco 01490 Plastic Protractor User Manual

Model: SPR01490

## INTRODUCTION

This manual provides instructions for the Sparco 01490 Plastic Protractor, a professional-grade tool designed for accurate angle measurement and drawing. It features a clear plastic construction with sharply defined, black-bonded raised graduations and an integrated 6-inch ruler base.

Each pack contains multiple protractors, ensuring you have a reliable tool for various applications, from academic use to technical drawing.

## PRODUCT OVERVIEW

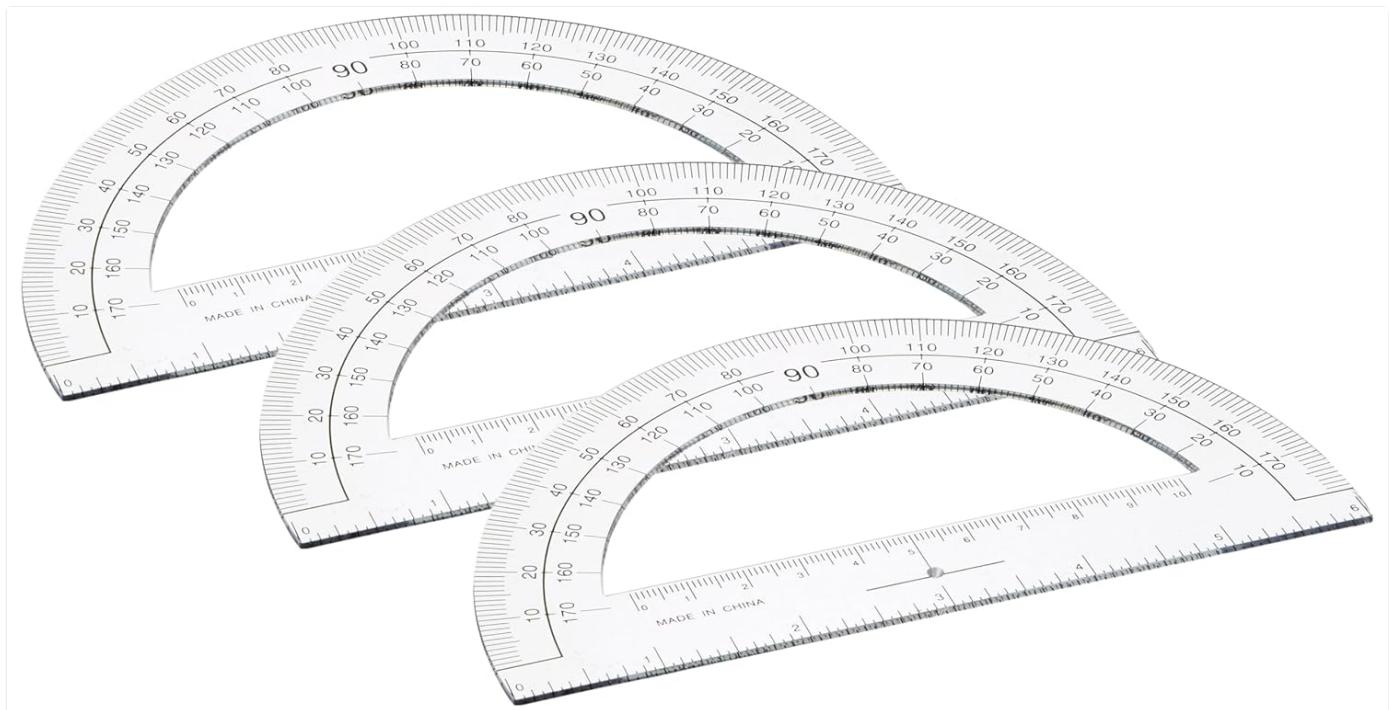


Figure 1: Sparco 01490 Plastic Protractors (Pack of 3). These clear plastic protractors feature an open center and a 6-inch ruler base, ideal for precise measurements.

- **Professional Design:** Engineered for accuracy in measuring and drawing angles.

- **Integrated Ruler:** Features a precise 6-inch ruler across the base for linear measurements.
- **Clear Plastic:** Constructed from crystal-clear plastic for unobstructed viewing of the working surface.
- **Sharp Graduations:** Black-bonded, raised graduations ensure excellent readability and durability.
- **Open Center:** Provides ease of use and visibility during angle measurement.

## SETUP

The Sparco 01490 Plastic Protractor requires minimal setup.

1. **Unpack:** Carefully remove the protractor(s) from their packaging.
2. **Inspect:** Before first use, inspect the protractor for any signs of damage or manufacturing defects. Ensure the graduations are clear and intact.
3. **Prepare Workspace:** Ensure your working surface is clean and flat to prevent inaccuracies during use.

## OPERATING INSTRUCTIONS

The Sparco 01490 Plastic Protractor is used for measuring existing angles and drawing new angles.

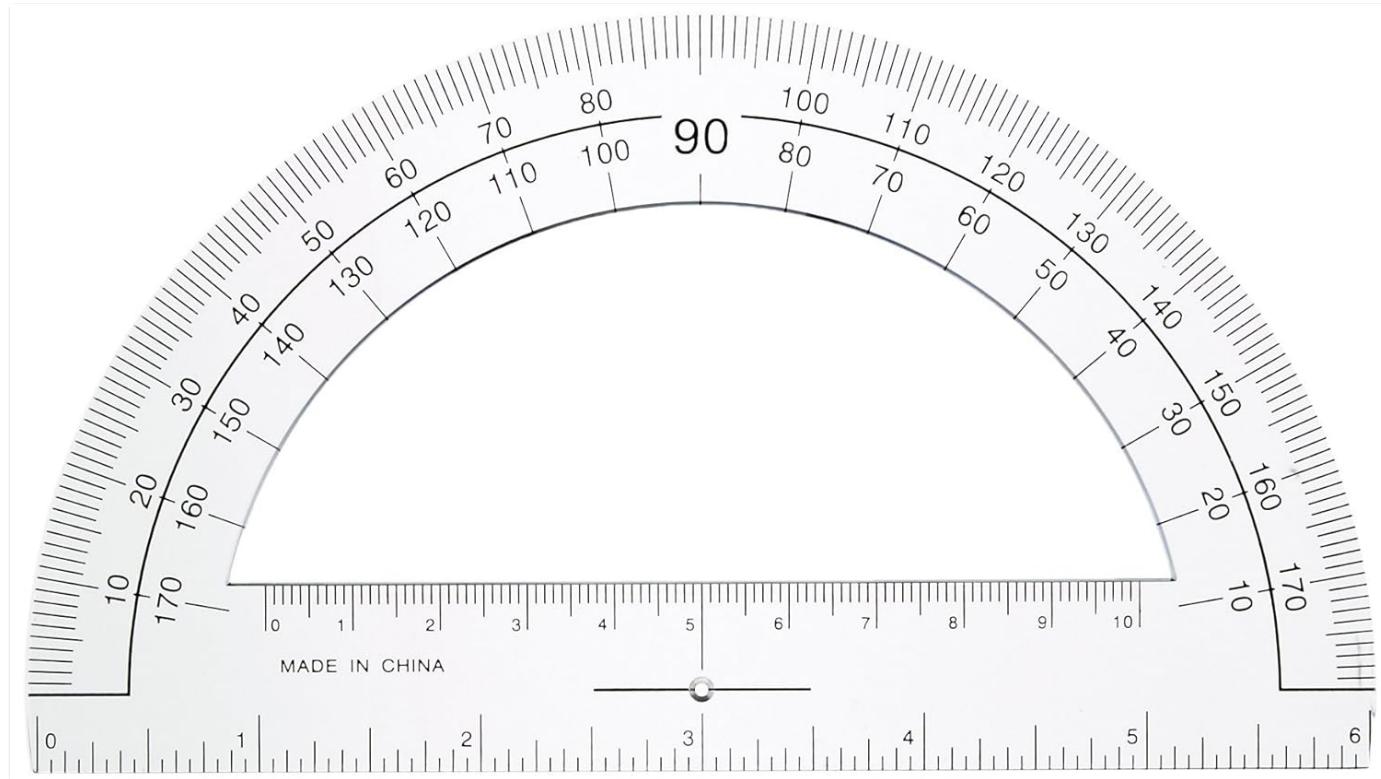


Figure 2: Detailed view of the protractor's markings and ruler. Note the clear plastic and black graduations for easy reading.

### Measuring an Angle:

1. **Align Vertex:** Place the protractor's center point (often marked with a small cross or hole) directly over the vertex (corner) of the angle you wish to measure.
2. **Align Base Line:** Align the protractor's straight base line ( $0^\circ/180^\circ$  line) with one of the angle's rays.
3. **Read Measurement:** Read the degree measurement where the second ray of the angle intersects the protractor's curved scale. Use the inner or outer scale depending on which side of the base line the angle opens.

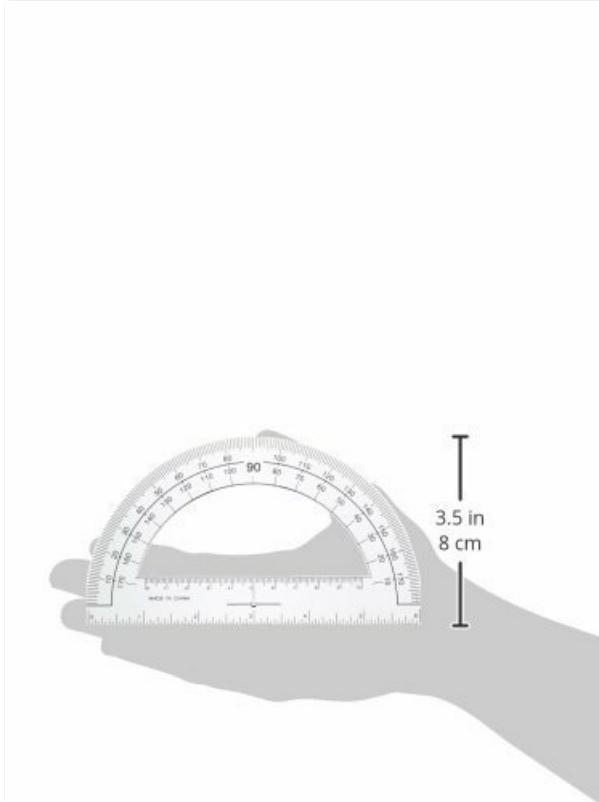
### Drawing an Angle:

1. **Draw Base Ray:** Use the protractor's ruler base to draw a straight line, which will serve as the first ray of your angle. Mark the vertex point on this line.

2. **Align Protractor:** Place the protractor's center point on the marked vertex, and align its base line with the drawn ray.
3. **Mark Degree:** Locate the desired degree measurement on the protractor's curved scale and make a small mark on your paper at that point.
4. **Draw Second Ray:** Remove the protractor. Use a straight edge (the protractor's ruler base can be used) to draw a line from the vertex through the mark you just made. This completes your angle.

### Using the Ruler Base:

The straight edge of the protractor features a 6-inch ruler. This can be used for drawing straight lines or for making linear measurements in inches.



**Figure 3:** The protractor in hand, illustrating its practical size and the integrated ruler for linear measurements.

### MAINTENANCE

Proper care will extend the life and maintain the accuracy of your Sparco protractor.

- **Cleaning:** Wipe the protractor with a soft, damp cloth. Avoid abrasive cleaners or solvents that could damage the plastic or fade the markings.
- **Storage:** Store the protractor in a protective case or a designated drawer to prevent scratches and breakage. Avoid placing heavy objects on top of it.
- **Handling:** While durable, plastic can break if subjected to excessive force or bending. Handle with care.

### TROUBLESHOOTING

Problem	Possible Cause	Solution
Markings appear faded or unclear.	Dirt, smudges, or wear.	Clean the protractor with a soft, damp cloth. Ensure adequate lighting in your workspace.

Problem	Possible Cause	Solution
Protractor breaks easily.	Excessive bending or dropping.	Handle the protractor with care. Store it in a way that prevents it from being bent or crushed.
Inaccurate measurements.	Improper alignment or damaged protractor.	Ensure the protractor's center point and base line are perfectly aligned with the angle's vertex and ray. Inspect for physical damage.

## SPECIFICATIONS

Feature	Detail
Brand	Sparco
Model Number	SPR01490
Material	Plastic
Color	Clear
Product Dimensions	6"L x 6"W
Ruler Base Length	6 inches
Graduations	Sharply defined, raised, black-bonded

## WARRANTY AND SUPPORT

For information regarding warranty, returns, or product support, please refer to the retailer's policy where the product was purchased or visit the official Sparco website.

**Manufacturer:** S.P. Richards Company

**Website:** [www.sprichards.com](http://www.sprichards.com) (Please note: This is a general manufacturer website and may not directly link to product support.)

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This manual is for informational purposes only. Specifications are subject to change without notice.