

# Digital Universal Protractor

## SERIES 187

### Technical Data

Range: -360° to +360°  
 Tolerance:  $\pm 2'$  ( $\pm 0.03^\circ$ )  
 Repeatability: 1'  
 Resolution: 1' (0.01°)  
 Battery: Lithium Battery  
 Battery life: 2,000 hours

### Function

Presetting

### Standard Accessories

12" Blade (Code No. 187-103)  
 Battery (CR2032) (Part No. 05SAA217)  
 Clamp box for Inch Height Gauge (Part No. 950749)  
 Plastic Case

### Optional Accessories

**187-104** 6" blade  
**187-105** Acute angle attachment  
**950750** Clamp box for Metric Height Gauge  
**905338** Connecting cable (40" / 1m)  
**905409** Connecting cable (80" / 2m)

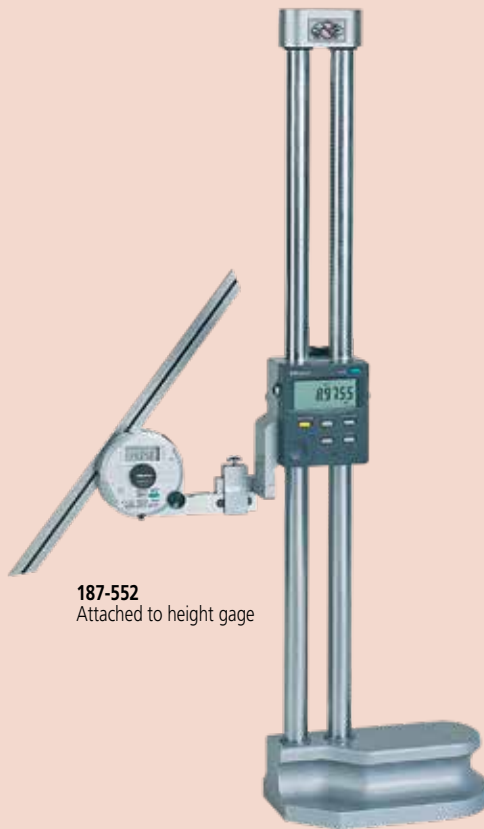
### FEATURES

- Data output function make it easy to see the statistical data.
- Can be attached to height gages, gage holder (950750, metric)
- Setting preset value.
- Removable blade.



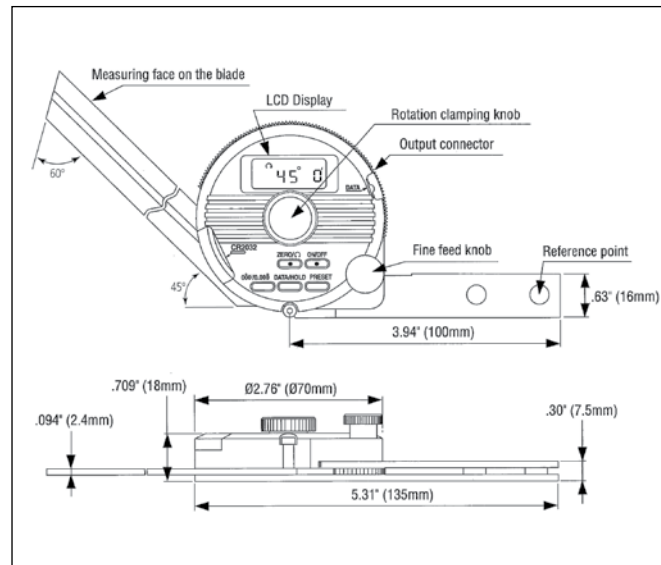
### SPECIFICATIONS

| Code No.                      | 187-552                                                                                            |
|-------------------------------|----------------------------------------------------------------------------------------------------|
| Model                         | BP-D300E                                                                                           |
| Blade                         | 12" (187-103)                                                                                      |
| Display                       | LCD - 5 digit, (-) sign, character height 6.5mm                                                    |
| Measuring range               | -360° ~ +360°                                                                                      |
| Resolution                    | 1' (0.01°)                                                                                         |
| Accuracy                      | $\pm 2'$ ( $\pm 0.03^\circ$ )                                                                      |
| Repeatability                 | 1' (0.01°)                                                                                         |
| Mass                          | 1.45 lbs (659g)                                                                                    |
| Dust / Water protection level | IP40                                                                                               |
| Function                      | Zero, Direction select, Data output / Data hold, Preset, Switchable Seagesimal or Decimal Notation |
| Max. response speed           | 3 rps                                                                                              |
| Battery                       | Lithium battery (CR2032) 1 pc. (Part No. 05SAA217)                                                 |
| Battery life                  | 2,000 hours                                                                                        |
| Alarm                         | Battery voltage low, Over speed error (Err)                                                        |
| Temperature                   | Operation temperature: 0 to 40°C<br>Storage temperature: -10 to 60°C                               |



**187-552**  
Attached to height gage

### DIMENSIONS



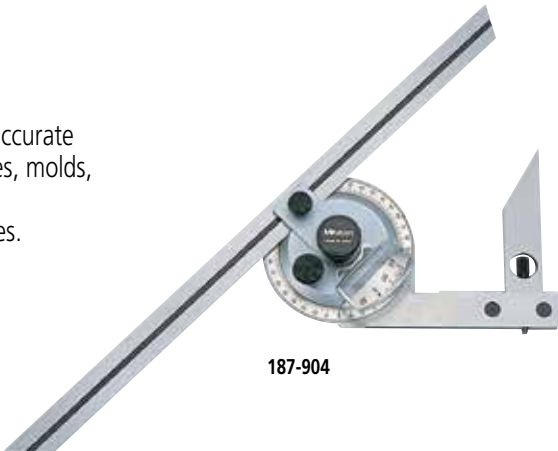
**Mitutoyo**

# Universal Bevel Protractor

## SERIES 187

### FEATURES

- High-precision angle gage for accurate angle measurement of machines, molds, and jigs.
- Can be attached to height gages.



187-904

### SPECIFICATIONS

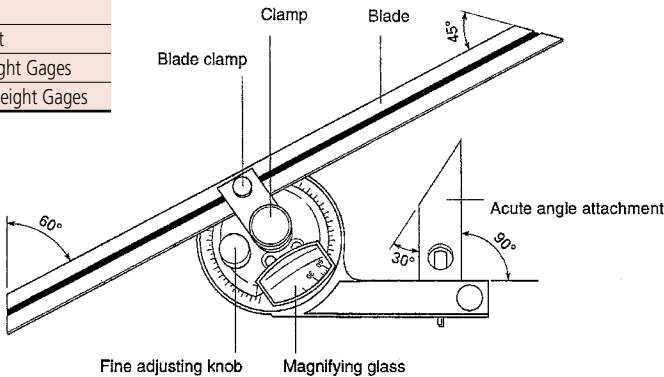
Universal Bevel Protractors

| Graduation |      |         |                                                                       |
|------------|------|---------|-----------------------------------------------------------------------|
| Order No.  | Dial | Vernier | Remarks                                                               |
| 187-904    | 1°   | 5 min   | with 6" blade (187-104) and Clamp box for Inch Height Gages (950749)  |
| 187-906    | 1°   | 5min    | with 12" blade (187-103) and Clamp box for Inch Height Gages (950749) |

Universal Bevel Protractor  
Accessories and Parts

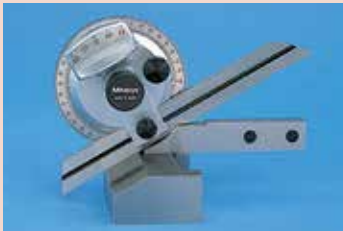
| Order No. | Remarks                           |
|-----------|-----------------------------------|
| 187-103   | 12" Blade                         |
| 187-104   | 6" Blade                          |
| 187-105   | Acute angle attachment            |
| 950749    | Clamp box for Inch Height Gages   |
| 950750    | Clamp box for Metric Height Gages |

### DIMENSIONS



### Technical Data

|                    |                       |
|--------------------|-----------------------|
| Graduation:        | 5min. (0° - 90° - 0°) |
| Accuracy           |                       |
| Vernier            | ±5'                   |
| L = Length in inch |                       |
| Diameter:          | 2.56" / 70mm          |



# Bevel Protractor

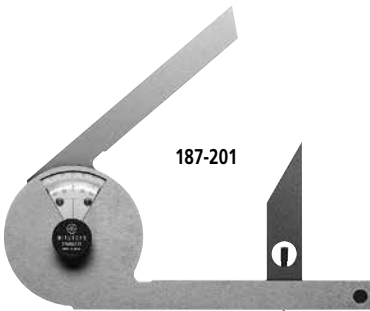
## SERIES 187

### FEATURES

- Consists of three sheets of stainless steel, the middle one of which is made for angle measurements.

### SPECIFICATIONS

| Order No. | Graduation | Remarks                                                                             |
|-----------|------------|-------------------------------------------------------------------------------------|
| 187-201   | 1° / 5 min | Center black knob locks the blade position<br>Protractor Graduation: 0°-90°, 90°-0° |



187-201

### Technical Data

|                   |                        |
|-------------------|------------------------|
| Graduation:       | 5 min. (0° - 90° - 0°) |
| Blade edge angle: | 30° and 60°            |
| Diameter:         | 2.56" / 70mm           |