The Trimble TS215 Total Station is a rugged, entry-level mechanical total station designed to meet the needs of building construction contractors performing two-person construction layout tasks. Use the Trimble TS215 alone, or partner it with the Trimble LM80 Layout Manager for enhanced layout capabilities, blueprint entry, and the added convenience of a graphic display.

A Total Station That Delivers Whatever your Job Conditions
When you arrive on the job site, just pull the Trimble TS215 Total Station out of its case and get to work. This rugged and reliable instrument accurately delivers whatever the conditions.

Durable high-Performance hardware
The TS215 offers features designed to deliver quality results and increase your productivity:

- Superior Nikon optics provide clear and precise aiming even in low light. Short- and long-distance focusing is faster.
- Rugged aluminum housing ensures durability and water resistance.
- An internal optical plummet expedites setup and ensures high accuracy stationing.

Just four rechargeable AA batteries are required for approx 6-15 hours of operation. When the instrument is low on power, replacing the batteries is quick and convenient, resulting in less downtime.

Trusted, easy-to-learn Programs
The TS215 operates with Trimble onboard software that has been proven in the field. It is easy to use and learn, so new TS215 users can be up and running with the instrument in no time. Onboard layout programs include:

- Point-to-point or missing-line measurement
- Setting out angles and distances Layout-to-point via down-and-out entry
- Reference-line measurement

Distances are clearly displayed in feet and inches, decimal feet, and meters; and multiple display pages enable users to easily access the data in the field.

The software is accessed via a simple onboard interface, or through the enhanced graphic display of the LM80 Layout Manager.

A Construction Layout Solution from The Positioning Leader
Trimble is the industry leader in high-accuracy and precision positioning, delivering the latest in technology for construction layout solutions. So with the Trimble TS215 Total Station you can be assured of the quality of your work and confidently stake your reputation on your results. In addition, Trimble 24/7 worldwide support means you are never alone; the surveying and construction professionals at Trimble are ready to lend a hand whenever you need it.

Key Features
- Makes two-person building construction layout more efficient and cost effective
- Built tough to deliver accuracy you need every time
- Proven Nikon optics and Trimble technology provide accuracy and measurement confidence
- Easy-to-use onboard software makes performing building construction tasks simpler and faster
- Efficient, convenient power consumption ensures productivity all day long

Provided by Xpert Survey Equipment
Click Trimble TS215 for Product Info and Updated Pricing
### Angle Measurement

**Accuracy** (Standard deviation based on DIN 18723)  5" (1.5 mgon)  
Angle reading increments  1"/5"/10" (0.2 mgon/2 mgon)  
Automatic level compensator  Single-axis

### Distance Measurement

**Prism Mode**

<table>
<thead>
<tr>
<th></th>
<th>Standard measurement</th>
<th>±3 mm</th>
<th>+ 2 ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracking</td>
<td>±10 mm</td>
<td>+ 2 ppm</td>
<td></td>
</tr>
</tbody>
</table>

**Measuring Time**

<table>
<thead>
<tr>
<th></th>
<th>Standard measurement</th>
<th>1.6 s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tracking</td>
<td>1.0 s</td>
<td></td>
</tr>
</tbody>
</table>

**Range (at Standard Clear)**

#### Measurement to Prism

| 1 prism (50 mm dia.) | 3,000 m |
| 3 prisms | 3,000 m |

#### Range with Nikon specified prisms

<table>
<thead>
<tr>
<th>Good conditions</th>
<th>(No haze, visibility over 40 km [25 miles])</th>
</tr>
</thead>
<tbody>
<tr>
<td>With reflector sheet (5 x 5 m, 5 to 100 m)</td>
<td>1,200 m (3,930 ft)</td>
</tr>
<tr>
<td>With mini prism (2.5 cm, 1 in)</td>
<td>2,300 m (7,480 ft)</td>
</tr>
<tr>
<td>With single prism (6.25 cm, 2.5 in)</td>
<td>3,000 m (9,840 ft)</td>
</tr>
</tbody>
</table>

### General Specifications

- **Telescope Magnification**: 33x
- **Aperture**: 45 mm (1.77 in)
- **Illuminated crosshair**: No
- **Display screen**: Single side - graphic LCD (128 x 64 pixel)
- **Operating temperature**: –20 ºC to + 50 ºC (–4 ºF to 122 ºF)
- **Battery**: 4x AA Ni-MH Batteries, rechargeable
  - **Charge time**: Approximately 3.7 hours
  - **Operating time**: Approximately 12–15 hours
- **Laser class**: II

### Data Transfer and Recording

- **Data input/output**: RS232 LM80 interface
  - **Data transfer**: Optional

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Specifications subject to change without notice.