

KEY FEATURES

Easy to use

PC card memory

Short measuring time

Requires only 30 cm of staff to measure



THE DINI 12, DINI 12T AND DINI 22 – ECONOMICAL AND EASY TO USE VERTICAL MEASURING TOOLS

Trimble's automatic, geodetic DiNi® digital levels are designed for ease of use and productivity, particularly when used for control or engineering applications. From general leveling work to precise deformation monitoring projects, Trimble's DiNi levels enable you to make and record accurate vertical measurements in the minimum time.

PRODUCTIVITY

Through innovative technology and an easy-to-use interface, the DiNi digital levels provide tools that you quickly learn and put to use in the field—saving you time and money. With the ability to record measurements in as little as three seconds, your productivity is significantly improved.

In addition, because the levels digitally read and record the data, human errors are eliminated—further reducing your costs while improving data integrity. Distance measuring capability provides a rapid means of balancing foresights and backsights on level runs, ensuring that the maximum sighting distance is not exceeded and providing higher reliability of results and optimizing the distribution of errors.

The menu-driven interface of the DiNi is clearly structured. Combined with the large graphical display and alpha-numeric point coding, it is extremely quick and easy to operate. Furthermore, the large keyboard with 22 keys ensures that you can easily operate any DiNi level in a wide range of environments.

EASY TO USE

It can often be difficult to see a large section of the staff due to terrain and other obstacles, but the DiNi gives you flexibility because it needs to "see" only 30 cm of the staff to make a measurement.

With a DiNi level it is easy to transfer data from the field to the office. The DiNi 12 and the DiNi 12T both use a PC card for data storage and seamless data transfer. The DiNi 22 uses onboard memory. Precise vertical measurements can be transferred to a wide variety of survey and design software packages including all Trimble office software packages. As well, data can be transferred and used immediately within a spreadsheet. You can forget about data transfer and conversion problems and get on with your job.

DINI 12 AND 12T DIGITAL LEVELS

The DiNi 12 and 12T are ideal for the precise electronic measurement of height differences and distances. When used with an invar staff for reciprocal leveling, the standard deviation is as small as 0.3 mm/km. When used with a more economical staff, the standard deviation is 1.0 mm/km.

The DiNi 12T provides the added benefit of a built-in electronic horizontal circle. It is a precise digital level that gives you a 3D measuring solution. Distances are measured using 50 cm of the staff for greater accuracy. Angle measurements are accurate to 6" so you can work with relative positions as well as levels.

For both the DiNi 12 and 12T, level runs can be computed and adjusted in the field, so you can return to the office satisfied with the quality of the data collected.

DINI 22 DIGITAL LEVEL

The DiNi 22 digital level is ideal for engineers working with and checking elevations. It is the economical option for all jobs that are less demanding in terms of accuracy. Standard deviations for 1 km of reciprocal leveling are 1.3 mm/km with a folding staff or 0.7 mm/km with a precise invar staff.

RANGE OF APPLICATIONS

DiNi digital levels provide an excellent solution for a wide range of applications such as:

- Rapid level runs to establish grade and ground profile
- Subsidence surveys
- Rapid level runs of railway lines
- Carriageway/runway leveling
- Beach or river profiling
- Precise leveling of extremely flat surfaces

No matter what your application, Trimble DiNi digital levels are the ideal tools for the precise recording and monitoring of vertical measurements.

TRIMBLE DINI DIGITAL LEVELS

TECHNICAL SPECIFICATION

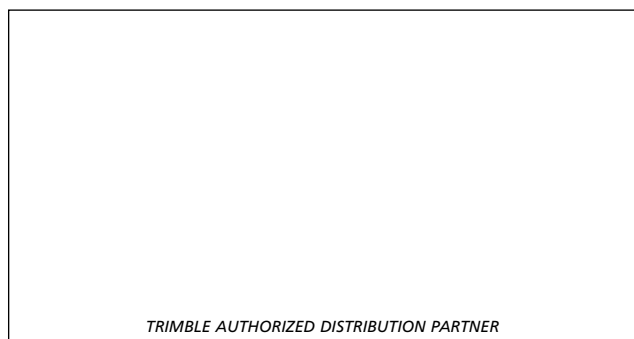
Accuracy, DIN 18723 (electr. measurement)	
Standard deviation for 1 km two-way leveling	
Precise leveling rod,	
coded scale	0.3 mm (0.0015 ft) DiNi 12, DiNi 12T 0.7 mm (0.002 ft) DiNi 22
Engineer's folding staff,	
coded scale.	1.0 mm (0.003 ft) DiNi 12, DiNi 12T 1.3 mm (0.004 ft) DiNi 22
Accuracy, distance (electr. measurement)	
Tacheometer mode (± 50 cm staff intercept)	
Precise leveling rod, coded scale	D* 0.0005 m
Engineer's folding staff, coded scale	D* 0.001 m
Leveling mode (0.3 m staff intercept, range 20 m)	
Precise leveling rod,	
coded scale.	20 mm (0.066 ft) DiNi 12, DiNi 12T 25 mm (0.082 ft) DiNi 22
Engineer's folding staff,	
coded scale.	25 mm (0.082 ft) DiNi 12, DiNi 12T 30 mm (0.098 ft) DiNi 22
Accuracy, angles	
External graduated circle (DiNi 12 and 22)	
Reading to	1°/1 gon
Estimation to	0.1°/0.1 gon
Electronic circle (absolute code) (DiNi 12T)	
Angular units.	grad/deg.min.sec/deg
Standard deviation for one bearing	6" /2 mgon
Measuring range	
Electronic measurement	
Precise leveling rod, coded scale	1.5–100 m (5 ft–328 ft)
Engineer's folding staff, coded scale	1.5–100 m (5 ft–328 ft)
Visual measurement	
Engineer's folding staff, metric graduation	from 1.3 m (4 ft)
Time of measurement	
	3 s DiNi 12, DiNi 12T 2 s DiNi 22
Telescope magnification	
	32x DiNi 12, DiNi 12T 26x DiNi 22

Compensator	
Tilt range	$\pm 15'$ / ± 270 mgon
Setting accuracy	$\pm 0.2''$ / ± 0.06 mgon DiNi 12, DiNi 12T $\pm 0.5''$ / ± 0.15 mgon DiNi 22
Display	Four lines of 21 characters each, graphic capability
Keyboard	22 keys, screen-related soft keys (menu & dialog operation)
Measurement program	
Standard	Single/multiple measurement, line of levels with intermediate sightings, area leveling, setting out
Extensions	Line adjustment DiNi 12 Line adjustment, Total Station mode DiNi 12T
Leveling methods	BF, BFFB, BFBF, BBFF** DiNi 12, DiNi 12T BF, BFFB** DiNi 22 (in addition to these, an alternating combination can be used)
Real-time clock	DiNi 12 and 12T only
Recording	
Data memory	PCMCIA Card (SRAM); option of 256 KB, 2 MB, 4 MB 8 MB DiNi 12, DiNi 12T Integrated data memory for 2200 data lines DiNi 22
On-line	RS 232 C Interface for external connection (download and remote control)
Power supply NiMH battery pack: 6.0 V; 1.5 Ah rechargeable, charging time with single battery charger about 2.5 hours	
Fully charged battery life	3 days DiNi 12, DiNi 12T 1 week DiNi 22
Operating temperature	-20 °C to +50 °C, (-5 °F to +122 °F)
Weight (instrument only)	3.5 kg (7.7 lb) DiNi 12 3.7 kg (8.2 lb) DiNi 12T 3.4 kg (7.5) DiNi 22

* D = Distance in meters ** B = Backsight, F = Foresight

Certified quality in accordance with DIN ISO 9001/EN 29001. Specifications and descriptions are subject to change without prior notice.

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