



Electronic Theodolites *ETH-200 series* for building and construction



Quick! Clear! Easy!

*Compact and portable electronic theodolites designed for ease of use
Easy-to-read-display • Built for the construction site*

ETH-200 Electronic Theodolites

Freedom of choice

There are 5 models in the range providing a choice of 5" (0.001G), 10" (0.002G) or 20" (0.005G) accuracy with the 10" and 20" models being available with either a detachable tribrach or a fixed base.

Applications

- Setting out right angles and checking plumb
- Alignment measurements
- Anchor bolt layout
- 90° layout

Key Features include:

- Easy to read display
- Zero set and reverse angle display
- Powered by Alkaline batteries

Easy-to-read-display

A 16 characters x 2 line liquid crystal display (LCD) is incorporated on both sides of the instrument. Both vertical and horizontal angles are displayed.

Easy key operation

A row of soft keys allows simple and fast operation

Energy concept

All models are powered by five easy to replace AA batteries.

Automatic power-off function

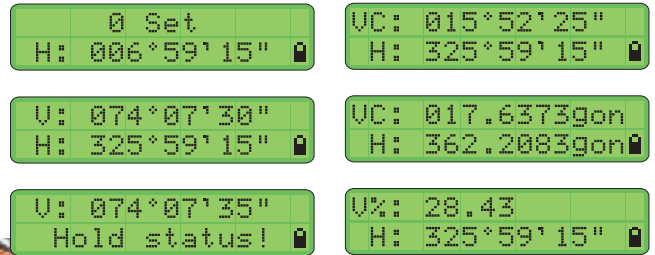
Automatic power-off prevents unnecessary battery drainage. The remaining battery capacity is indicated on the display.

Angle measurement and Angle control

- Clockwise and counter-clockwise angle measurement
- Conversion of the vertical angle to a percentage grade
- Zero setting of the horizontal angle at any position
- Horizontal angle 'Hold' key function

Bright optics

All the models have a bright 30x magnification telescope which ensures sharp and clear images even in poor light conditions.



Easy to use

- Lightweight and compact
- The basic instrument weighs only 4.3 kg or 9 lbs. 8 oz. (including battery)

Speedy instrument set-up

The shifting base on the ETH-210C/220C allows rapid setting of the instrument over a known point.

Standard configuration

- 2x Battery case (one is attached to each instrument)
- 5x Dry cell battery, type AA (pre-installed in battery case)
- 1x Hexagonal wrench (1.5 mm)
- 2x Adjusting pin
- 1x Screwdriver
- 1x Plumb bob
- 1x Rain cover
- 1x Carrying case
- Instruction manual

Optional accessories

- Diagonal eyepiece

Technical specifications

	ETH-205	ETH-210/210C	ETH-220/220C
Telescope section			
Image		Erect	
Magnification		30x	
Resolving power		< 3.5"	
Effective aperture		40 mm	
Field of view		1°20'	
Minimum focus		0.5 m	
Angle measurement			
Measurement method	Incremental rotary encoder		
Detection method	Horizontal: Dual Vertical: Single		
Minimum display	1°/5"/10"/20"	5°/10"/20"	10°/20"
Accuracy	5"	10"	20"
Display			
Type	LCD, 16 characters x 2 lines		
Display panel	Dual		
Sensitivity of vials			
Plate vial	30"/2 mm		
Circular vial	8"/2 mm		

	ETH-205	ETH-210/210C	ETH-220/220C
Tribrach			
Display panel	Detachable	Detachable/Shift	Detachable/Shift
Optical plummet			
Magnification	2x		
Focusing range	0.5 m ~ ∞		
Environmental standards			
Working temperature	-20°C ~ +45°C		
Power source			
Type	5x AA dry battery		
Operation time	15 hours		
Dimensions			
Instrument	165 x 174 x 325 mm		
Carrying case	440 x 270 x 250 mm		
Weight			
Instrument (incl. battery)	4.3 kg - 9 lbs. 8 oz.		
Carrying case	2.54 kg		



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