Electronic distance measuring instruments

American Congress on Surveying and Mapping, Control Surveys Division] - Basic GPS

Description: -
-
Operating systems (Computers)
Real-time data processing.
Pascal (Computer program language)
Bible -- Study and teaching -- Bibliography
Bible -- Criticism, interpretation, etc.
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Russia (Federation) -- Economic conditions -- Statistics.
Ural Mountains Region (Russia) -- Economic conditions -- Statistics.
Uruguay.
Children -- Legal status, laws, etc. -- Uruguay.
Handicraft.
Handicraft -- Juvenile literature.
Distance measuring instruments, Electronic.Electronic distance measuring instruments
-Electronic distance measuring instruments
Notes: Bibliography: p. 60.
This edition was published in 1971

Tags: #Basic #GPS

Electronic distance measurement (EDM)

For example, the lengths AB and BC might be set at 40 m and 60 m, respectively, for an instrument with an as fundamental wavelength of 10 m.

Electronic distance measurement (EDM)

Several obstacles to chaining are automatically overcome when these instruments are used.

Two

The superimposition is achieved by amplitude Figure 4.

What is Electronic Distance Measurement (EDM)?

The precision of horizontal, relative positions with GPS is approximately 3 mm for baselines in excess of a couple kilometers. What is Electronic Distance Measuring EDM? At present, we have modern EDMs that displays distance in digital form and many gains microcomputers that calculates horizontal and vertical distance i.

Electronic Distance Measurement Instrument

The time taken by the wave to travel this 2x distance may be measured and knowing the velocity of wave, the distance may be calculated.

What Is EDM in Surveying

Mainly the waves that are propagated can be represented like a sine wave as shown in figure below.

Two

In the case of IR instruments, amplitude modulation is used. Table no-2 depicts the distance error in millimeters versus the error in temperature entered into an EDM for various lengths of sight.

Electronic distance measurement (EDM)

The first EDM instrument called geodimeter was developed in Sweden in the year 1948. For older instruments, varying this transmission frequency made corrections, or they could be computed manually after the observation. The second instrument for EDM was designed and developed in Africa in the year 1957, named tellurometer.

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