

# Cable Distance Meter



## Description

The Cable Distance Meter is a handheld meter for measurement of cable sag, cable height distance and overhead clearance of conductors. It is a modern alternative to telescopic measuring poles. The Cable Distance Meter utilizes ultrasonic signals to determine the height of overhead cables up to 75 feet (23m).

Used by line operators within the utility industries such as electricity and telecommunications, the Cable Distance Meter measures up to 6 wires.

## Operation

The Cable Distance Meter is capable of measuring up to six cables (provided they are within range). This is accomplished by standing directly beneath the cable and aligning longitudinally (looking down the line). Simply press the "ON" button to power up the instrument and allow the temperature to stabilize. Press and hold the "MEASURE" button and, if necessary, gently rock and tilt the instrument until a stable reading is obtained.

## Features and Benefits

- **OSHA Regulations** - verify OSHA regulations are met
- **Quick Measurement** - saves time and money
- **Inherently Safe** - no physical connection to cables or wires required to obtain measurement
- **Extremely Accurate** - measures to accuracy of 0.5%
- **Ease-Of-Use** - simple, three button operation ensures fast, effective measurements with a minimum of operator training
- **Compact Size** - its lightweight and handheld portability allows easy transport and multiple measurements
- **Maintenance-Free** - proven reliability in the field, no adjustments required
- **Low Battery Indicator** - indicates when to change battery
- **Warranty** - 1 year

## How It Works

The Cable Distance Meter emits short bursts of sound which originate from the cone-shaped transmitter. The microprocessor in the instrument calculates the elapsed time for the bursts of sound to be reflected from the cable back to the instrument. The result can be displayed in either feet and inches (imperial) or meters (metric) format. To account for the fact that speed of sound varies with temperature, a temperature sensor mounted at the front of the instrument senses the actual air temperature and automatically compensates.

## Applications

Applications include height measurement of:

- Telephone lines
- Distribution lines
- Transmission lines
- Cable television lines
- Street lighting
- Sag (lowest point to ground)
- Clearances on construction sites

The unit also provides a safer way to measure cable heights on highly congested roadways. Switching to "Calibrate - Wall" mode allows the instrument to be used indoors. This mode also offers an easy way to check whether the device has remained in calibration since its purchase date.



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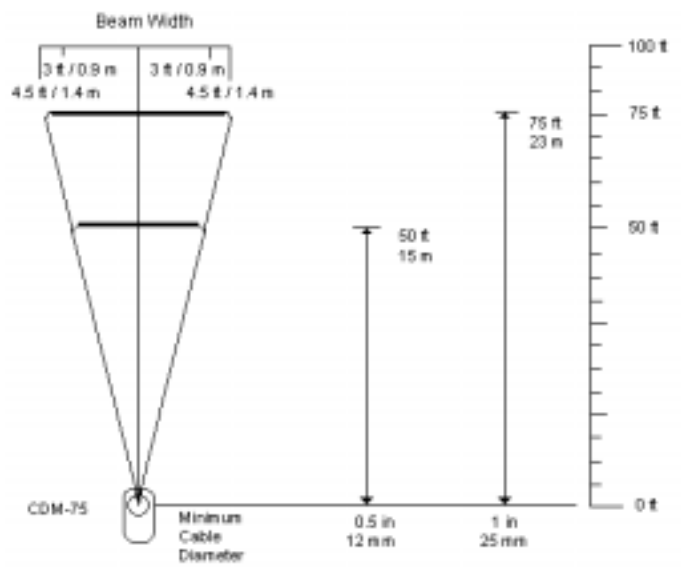
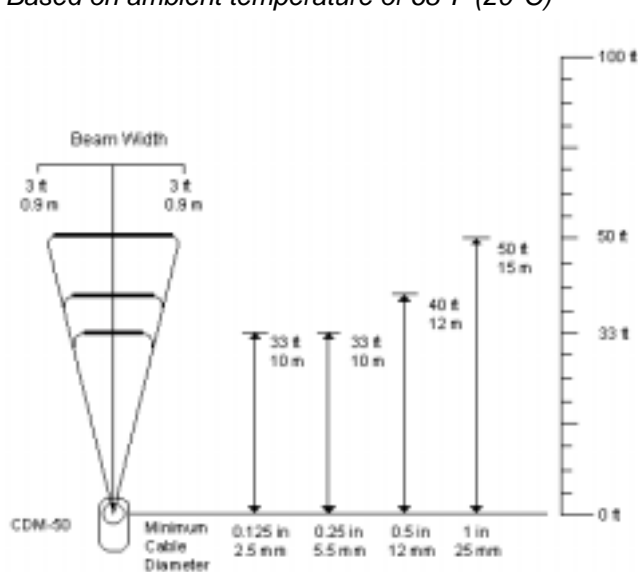
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## Specifications \*

	Model CDM-50	Model CDM-75
1 inch (25mm) Cable Diameter	10' - 50' (3 - 15 m)	10' - 75' (3 - 23 m)
0.5 inch (12mm) Cable Diameter	10' - 50' (3 - 15 m)	10' - 50' (3 - 15 m)
0.25 inch (5.5mm) Cable Diameter	10' - 40' (3 - 12 m)	N/A
0.125 inch (2.5mm) Cable Diameter	10' - 33' (3 - 10 m)	N/A
Number of Wires Measures	6	6
Accuracy	0.5% ± 2 digits	
Resolution (range less than 33 feet)	0.25 inch (5 mm)	
Resolution (range more than 33 feet)	0.5 inch (10 mm)	
Minimum Gap Between Wires	6 inches (150 mm)	
Operating Temperature Range	14°F to 104°F (-10°C to 40°C)	
Battery Life (with long life alkaline type)	50,000 measurements	
Measurement Units	Imperial (feet/inches) or Metric (meters)	
Auto Power Off Delay	3 minutes	
Dimensions	7.5" x 3" x 2.5" (190 mm x 76 mm x 63 mm)	
Weight	1 pound (0.5 kg)	

\* Based on ambient temperature of 68°F (20°C)



## ORDERING INFORMATION

Item	Order No.
Cable Distance Meter, take measurements for 6 wires up to a distance of 50 feet (15m), includes carrying bag	CDM-50
Cable Distance Meter, take measurements for 6 wires up to a distance of 75 feet (23m), includes carrying bag	CDM-75

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