CHM300DT Cable Height Meter

- Fast measurement
- Inherently safe
- High accuracy
- Easy to use
- Proven reliability
- Compatiable with DT80

DESCRIPTION

The SupaRule CHM 300DT Cable Height 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 CHM 300DT Meter utilises ultrasonic signals to determine the height of overhead cables up to 15m (50feet)

Used by line operators within the utilities industries, e.g., electricity and telecommunications, the CHM300DT measures the height and separation of up to 3 wires. The CHM300DT has the additional feature of measuring horizontal distances up to 150 feet (45m), with the aid of the optional Dynamic Target(DT80).

HOW IT WORKS

The Cable Height Meter emits short bursts of sound which originate from the cone-shaped transmitter. The microprocessor in the instruments 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 instruments, senses the actual air temperature, and automatically compensates.

When used with the DT, the transmitted signal from the 300DT is detected by the DT, which then generates and sends back a new signal. In this way, the measurement range can be almost tripled.

OPERATION

The Cable Height 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 the ‘MEASURE’ button and, if necessary, gently “rock and tilt” the instrument until a stable reading is obtained.

APPLICATIONS

Applications include height measurement of:

- Telephone lines
- Distribution lines
- Transmission lines
- Cable television
- Street lighting
- SAG (lowest point to ground)
- Pole Span
- Distance measurement across busy roadways
- Clearances on construction sites

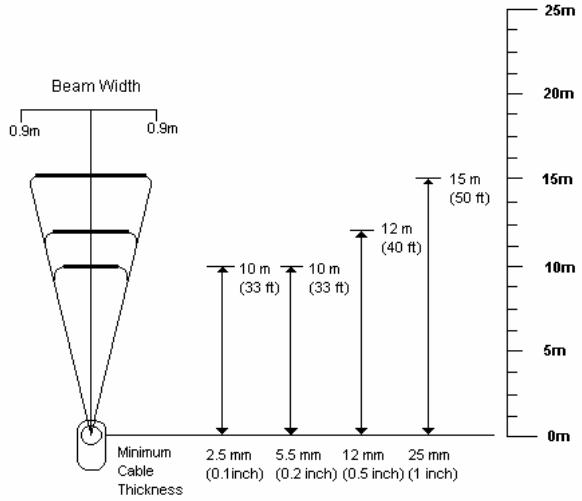
FEATURES AND BENEFITS

- *Quick Measurement* - saves time and money
- *Horizontal Measurement* — when used with optional DT80, measures horizontal distances to 45m
- *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 light-weight and hand-held Portability allows easy transport and multiple measurements
- *Maintenance-free* - proven reliability in the field, no adjustments required
- *Warranty* - 1 year

SPECIFICATIONS

Ambient Temperature = 20 °C	CHM300DT
Range (25mm cable min)	3 –15m (10-50ft)
Range (12mm cable min)	3 –15m (10-50ft)
Range (5.5mm cable min)	3 –12m (10-40ft)
Range (2.5mm cable min)	3 –10m (10-33ft)
No. of wires measured	3
Horizontal Range with DT80	3 - 45 m
Accuracy	0.5% ± 2 digits
Resolution (range <10m)	5 mm
Resolution (range >10m)	10 mm
Minimum gap between wires	150 mm
Operating Temperature Range	-10 °C to 40 °C
Battery Life (Long Life Alkaline type)	50,000 measurements
Measurement units	Imperial (feet/inches) or metric (meters)
Auto power off delay	3 minutes
Dimensions	205 mm X 100 mm X 70 mm (8.5 inches X 4 inches X 3 inches)
Weight	0.5kg (1.1lb)

PERFORMANCE



CHM Range versus Cable Thickness

ORDERING INFORMATION

Item	Order No.
Cable Height Meter, 3 Wire, Range 15m (50ft), compatible with DT (Dynamic Target)	CHM300DT
Dynamic Target (for use with CHM300DT to measure horizontal distances up to 45m (150ft)	DT80
CHM Leather Case	LC

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