



DT 80 Dynamic Target

- Horizontal distance measurement to 45m
- High accuracy
- Light weight
- Compatible with CHM300DT
- Tri-pod mountable

DESCRIPTION

The DT80 is an accessory for use with the CHM300DT Cable height Meter, enabling it to be used for horizontal, as well as vertical distance measurement. On its own, the CHM300DT is used for the measurement of the height of up to 3 overhead cables, to a maximum of 15m. When used with the DT80 the CHM300DT can measure horizontal distances up to 45m.

This range of 45m allows the utility linesman to quickly identify the mid-point between two poles, i.e. the point at which the maximum sag of the overhead line occurs. The vertical height of the overhead line at this point can then be measured with the CHM300DT.

OPERATION

The CHM operates by sending an ultrasonic signal to the target. The signal is rebounded off the target, and the echo received back at the CHM. The CHM measures the time between the transmission of the signal, and the reception of the echo. Knowing the speed of sound in air, the unit then calculates the distance travelled by the signal, and therefore the distance to the target.

When used with the DT80, the signal transmitted from the CHM300DT is received by the DT80. The DT80 then transmits a new signal back to the CHM. Because each signal can travel directly from source to target without losing strength by rebounding, the overall measurement distance is considerably increased (almost 3 times) from the normal CHM range.

APPLICATIONS

The DT80 adds considerable extra functionality to the CHM300DT. It allows the user to measure horizontal distance as well as the vertical height to overhead cables.

One of the key requirements for overhead line technicians is to identify the minimum clearance of overhead cables. The minimum clearance is normally at the lowest sag point in the cable. With the facility to measure horizontal distances up to a diameter of 80 meters (45m in each direction), the user can easily locate the centre point between two cable supporting poles, and therefore identify the point where the overhead cable is at its lowest sag. The CHM300DT can then be used to accurately measure the overhead cable height at this point.

Multiple DT80's used in conjunction with the CHM300DT can also facilitate triangulation and similar complex calculations in surveying applications.

SPECIFICATIONS

Range with CHM300DT	> 45m
Accuracy	± 5 mm
Operating Temperature Range	-10 °C to +40 °C
Weight	200g
Dimensions	85 x 85 x 55 mm
Battery Type	9V Block
Battery Life	63 hours (continuous)
Housing Rating	IP53
Warranty	2 year