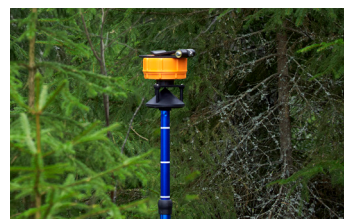


# The DP DME



*The DP DME offers possibilities to have a distance connected with each individual tree. When performing circular sample plot inventory, the distance to the plot centre from the centre of the tree is automatically calculated by the caliper software. The software can be programmed with functions to warn or refrain from registering trees beyond the preset plot border.*

The DP DME distance measurer is an instrument accessory for the Digitech Professional and the DP II. With the DP DME, measurements to determine if a tree is within the plot radius are performed with the help of ultrasound technique.

The DP DME uses ultrasound to measure distances. The ultrasonic method is well proven and used in instruments such as the Vertex IV, the Vertex Laser and the DME. To measure with the DP DME, the T3 transponder is placed in the plot centre on a monopod staff. The DP DME is installed on the caliper comport and works with the host computer caliper and corresponding software. When measuring the tree diameter with the caliper, the DP DME can be activated to measure the distance from the tree centre to the transponder, placed on the monopod staff in the plot centre.

The DP DME accessory will work with most Haglöf Sweden computer caliper software applications after upgrading. The software can be customized to, for example, refrain from registering trees outside pre-set plot limits. The host computer supplies battery and display for the DP DME, and all instrument functions are software run.



## TECHNICAL SPECIFICATION DP DME

Dimensions:	57x30x30mm, 2.28"x1.2"x1.2"
Weight:	25g, 1oz.
Power supply:	3.3V external feed. Consumption: 7mA.
Ultrasonic frequency:	25kHz
Unit:	cm. Other units can be set in receiving software.
Accuracy:	1% or better.
Distance:	0-30m (maximum); >20m with 360° adapter
Protocol:	NMEA
Interface:	RS232 19200,8,N,1.
Accessories:	Transponder T3, monopod plot staff, adapter.

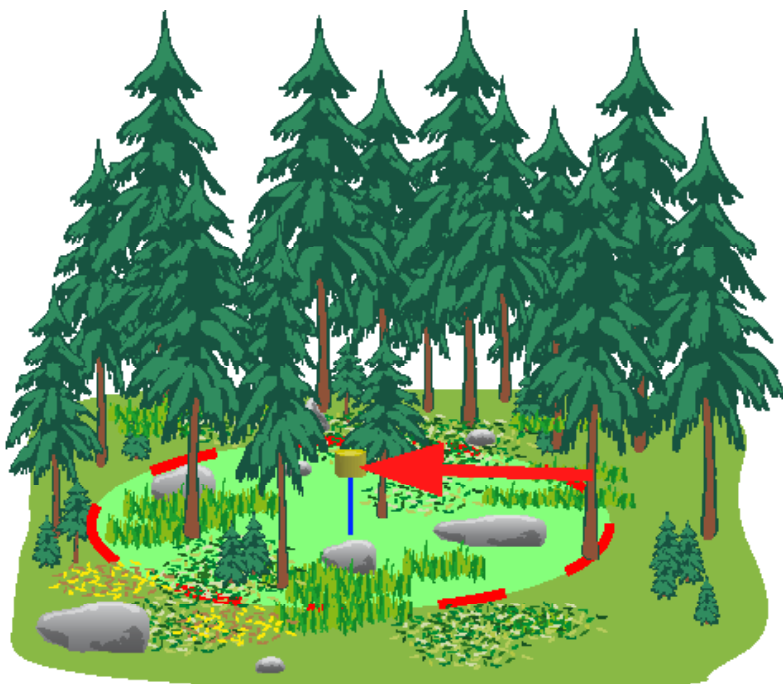
*Position the T3 transponder in the plot centre on the monopod staff. The monopod, used for the DP DME, the Vertex IV, the Vertex Laser and the DME, is customized for use in tough field conditions. Measure the tree diameter with the caliper and activate the DP DME in your computer terminal. The software will determine the distance from the tree centre to the plot centre.*

**Recommended software for the DP II with DP DME accessory: TIMS for standing trees art. no. 14-104-1052**

## DP DME 13-600-1064 complete package/set incl. DP DME instrument, transponder T3, plot centre staff and adapter.

13-600-1065 DP DME Measuring unit only.

A software upgrade can be included if you are working with a licensed Haglöf Sweden software and a Haglöf computer caliper (the DP II or the Digitech Professional). Check with us if your Haglöf Sweden software application is compatible with the DP DME.



The DP DME instrument accessory uses ultrasonic signals to determine distance. The technique is well proven and appreciated in forest measurement work everywhere. Ultrasound signals have the capacity to travel around obstacles such as thick undergrowth and vegetation and can measure distances up to 20-30 meters/yards.

The distance results is determined by the time the ultrasonic signals need to travel to and from the emitting unit, and air humidity and temperature can have effect on this. When working with ultrasound emitters and receptors, always allow the instruments to stabilize at ambient temperature. The distance range can be situation depending, and determined by conditions such as surrounding, repeated sounds - waterfalls, chain saws, highway traffic, frogs and crickets. More details are available in instrument user guides.

*Position the T3 transponder in the centre of the plot on the monopod staff. Walk around the plot anti-clockwise to measure the distance to the plot centre. When the DP DME is assembled on Haglöf computer calipers the DP II or Digitech Professional with software, the distance to the plot centre can be measured and registered for your border trees at the same time as the tree diameter is measured and registered. The distance is monitored and registered as a compensated value - the centre of the measured tree for better accuracy.*



**The Transponder T3** has a water resistant and rugged construction in a bright, visible color. T3 uses one AA battery and it is compatible with Haglöf instruments DP DME, Vertex IV, DME and Vertex Laser. The transponder is equipped with a sharp pin and can be placed directly on a tree stem. It can also be used with an adapter and monopod staff to measure in a full circle in sample plot work.

Art. no. T3 (orange): 15-104-1012. Diameter T3: 70mm/2.8". Weight: 85g/3.4oz. 1 x 1.5V AA alkaline battery, consumption max. 9mW.

**The monopod plot staff** is custom produced in sturdy light-weight, bright blue aluminium material with a pointy end.

Art. no. Monopod plot staff: 15-104-1013. Height when assembled 130cm/50.7". Weight approx. 240g/9.6oz.

**The Adapter** is mounted on the plot staff and allows for measuring in a full 360° circle. Art. no. Adapter 15-104-1011. Plastic material, height approx. 47mm/1.88", weight approx. 40g/1.6oz.