

The **PRENART TDR SYSTEMS** are used for *in situ* measurement of volumetric water content of soils.

The TDR measurements are carried out with the new TDR100 instrument made by Campbell Scientific Inc., USA, combined with a handheld PC. The data acquisition and analysis program AutoTDR has been developed specifically for the rugged handheld Allegro field PC. However, the AutoTDR program will also run on other IBM compatible PC's. The TDR system has been developed in collaboration with The Danish Institute of Plant and Soil Science, where it has been used extensively for several years.

The portable TDR system in combination with the multiplexed probe system allows the installation of an adequate number of inexpensive measuring probes in areas with variable soil conditions. The TDR instrument can be used to service probe systems installed at many sites. Also available with the system is a portable TDR probe with 20 cm rods especially useful for irrigation management in parks and golf courses.



TURNKEY TDR-system

A complete TDR system including a compact portable TDR instrument, a handheld computer and probe systems has been developed. The system has been developed both for the inexperienced and the experienced users of TDR. The beginner will appreciate the easy to use software taking care of data analysis and storage. The experienced user will appreciate the flexibility of the AutoTDR software.

The complete system includes the new compact TDR 100 instrument from Campbell Scientific Inc., USA, combined with the rugged waterproof handheld Allegro field PC from Juniper Systems running the AutoTDR software and 5 sets of measuring probes including the lengths 20 cm, 50 cm and 90 cm. The TDR 100 instrument is carried in a convenient hip sack. Using the Allegro field PC, only 1 - 2 minutes is required for making measurements on each probe set.

Further information on the Turnkey TDR-system is available at www.prenart.dk