

## FEATURES

- Adopt 16-bit micro-controller MSP430F5437A as the CPU of DN-W1, which is well-known as low power consumption and high performance.
- Adopt large size color TFT HD-LCD, where data and figures are quite clear.
- Adopt high-speed and memory Flash storage.
- Adopt low-power A/D converter with 24-bit resolution.
- Set USB interface on the model, from which the data can be read on the machine directly and other computers easily.
- Adopt high-strength ABS engineering plastic molding shell.
- Set three sampling channels and three test data can be obtained simultaneously.
- Adopt high-capacity lithium battery which is suitable for long time operation in the field.
- Main functions and based codes.
- DN-W1 model microcomputer is used to receive data from various sensors and/or probes in the in-situ test, process, store, display and print results.



## FUNCTIONS

- Can be used for CPT, CPTU and VST.
- Can be used for Calibration of probes of CPT, CPTU and VST.
- Can represent a variety of test data in different colors.
- Can achieve automatic zero setting with the A/D converter.
- Can record the testing data at an interval of depth or time period.
- Can store the testing data in a flash disk, and the data can be read on the machine directly and other computers easily.
- The data stored by DN-W1 model can be printed by connecting to a computer. Calibration record table and calibration curve of various probes. CPT data, CPTU data and VST data. Various test results (Ps., qc, fs, u, Cu,) with depth or time.

## TECHNICAL SPECIFICATIONS

Display	7-inch LCD
Three differential input channels	-20mv to +20mv
The linear error of instrumentation measurement system	$\leq \pm 0.1\%$
The depth of sampling interval	10cm
Maximum record depth of single hole	99.9m
Data storage capacity	4096 storage space, up to 1024 data storage
Maximum number of holes	350
Batteries of machine	2W
External voltage	2.5W
Internal voltage	7.4V, 5200mA lithium battery
Size of the host	268 x 168 x 45 (mm)
Weight the host	About 960g