

## VW readout unit



### Description

Model ACE-800 is **VW readout unit** that pursues mobile convenience and designed as palm style for vibrating wire sensor output only.

The ACE-800 applied for using 4 membrane keys such as On, Off, Mode, Select even beginners can operate very easily and applied large scale LCD, that is used for acme mobile phone technology, for easy reading and customers can read mode, battery residual capacity indicator, thermistor temperature and selected frequency unit at same time to measure at ease. Also it applied backlight function for nighttime job at sites.

The ACE-800 applying selection functions for engineering unit of frequency and sweep band. It applying automatic circuit breaker that off the unit after 500 times reading (it takes around 15 minutes) to increase effectively battery lifetime and using time. It is able to using ACE-800 for 40 hours continuously per one time recharging by applying Nickel-Hydrogen rechargeable battery.

Another main function is LCD light contrast and it is possible to measure accurately even summer, winter, tropical regions and polar regions.

Enclosure case of ACE-800 is made of ABS plastic and it is designed for vibration, shockproof and waterproof cover structure. So it is proud of high reliance.

### Features

- Reliance of high analysis and high accuracy
- Able to use at high/low temperature (LCD light contrast)
- 40 hours continuous measurement (Ni-MH battery)
- Large LCD for easy reading
- World smallest palm style
- Battery residual capacity indicator
- No malfunction by using membrane keys
- Recharging level indicator (LED indicator)
- Leather case

### Functions

- On-Off function  
Turn the unit on/off
- Automatic power saving  
Turned off automatically for power saving after 500 times reading
- [Mode]  
Select frequency band (sweep) / units / contrast in sequence
- [Light/Select]  
Turn the backlight on/off LCD screen, controlling frequency band sweep) / units / contrast
- Backlight  
Applying for night time job at easy
- LCD light contrast  
For summer / winter and tropical regions / polar regions
- Rechargeable  
Using 40 hours by 1 time charging  
(Ni-MH rechargeable battery)

### Notice

This has not the shield circuit, which can absorb the electrical noise. If you use this at the site where the electrical noise occurred too much (there is a water, motor and electric welding.), the output of sensor unstable due to the influence of noise. In this case, use our logger ACE-1000; for expert of geotechnical monitoring

### Specification

Model	ACE-800
Applied sensor	Vibrating wire sensor
Frequency range	450~6,000Hz
Displayed units	Hz, $\mu\text{sec}$ , $10^3\text{Hz}^2$ , $^{\circ}\text{C}$ , $\mu\epsilon 0.391$ , $\mu\epsilon 0.7756$ , $\mu\epsilon 3.304$ , $\mu\epsilon 4.062$
Resolution	0.01%FSR(0.1Hz)
Accuracy	0.02%FSR(0.1Hz)
Operating temperature	-20~50 $^{\circ}\text{C}$
Temperature sensor	Thermistor(3k $\Omega$ )
Temperature resolution	0.1 $^{\circ}\text{C}$
Display	128 $\times$ 64 graphic LCD
Functions keyboard	4 membrane keys pad
Power	4.8VDC / rechargeable Ni-MH battery
Recharging part	7.5VDC / 1000mA(free volt) adaptor
Battery life	About 40 hrs continuous
Dimensions	114 $\times$ 72 $\times$ 30mm
Weight	0.25kg
Material of case	ABS plastic injection
Accessories	① Jumper cable ② Rechargeable adaptor ③ Leather case

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