Transient Electromagnetic Water Detector

This water detector uses an industrial PC as the main controller with a Windows control panel for high automation. The power supply method utilizes a 'Big currency small coil' to achieve a 200A big currency continuous square-wave power supply.

Product Overview

Transient Electromagnetic Method (TEM)

This Transient Electromagnetic Water Detector utilizes advanced time-domain electromagnetic methods to map subsurface geological structures. By analyzing conductivity and magnetoconductivity differences, the system identifies underground water, mineral deposits, and geological formations with high precision. Designed for rugged field use, it features an industrial-grade controller and robust anti-jamming technology to ensure reliable data acquisition in diverse environments.

Key Applications	Groundwater Exploration, Mineral Detection, Geothermal Resources, Coal Bed Detection, Geological Mapping

Receiver Performance

Receiver Performance Metrics

140 dB	0.1 ¥4	64 ms
Dynamic Range	Resolution	Max Sampling Delay

Sampling Rates

- 1
- 4
- 16

Storage Capacity	256M Memory / 40G Hard Disk

Transmitter Specifications

Current Intensity Options

- 25
- 50
- 100
- 200

Pulse Width Options

- 10
- 20
- 40

Transmitter Weight	2 kg

System Features

System Advantages

Industrial PC Controller • Vibration Resistant • Anti-Jam Technology • Low Noise Preamplifier • High Automization

Interface Connectivity	USB, Parallel Port, Serial Port, Network Card