KDTS

Partial discharge detection system

KDTS receives electromagnetic emissions associated with partial discharge through an antenna and a filtered amplification chain. On-device signal processing evaluates the pulses and sends measurements over Wi-Fi to a Windows computer or tablet. The operator views live and extended-history traces, records measurements and replays them later. Three indicators show the average and maximum levels of signals above a threshold and how often the threshold is exceeded. The units run on battery and mount on a vehicle with magnets for field inspections of overhead power lines.



Figure 1. KDTS measurement units

AT A GLANCE

DETECTION METHOD
RF pulse detection

SIGNAL PROCESSING
On-device pulse analysis

MEASUREMENT INDICATORS
Average level, maximum level and threshold-exceedance frequency

DATA LINK
Wi-Fi / UDP

OPERATOR TERMINAL
Windows computer or tablet

APPLICATIONS

- Partial discharge surveys around overhead power lines
- Electrical insulation condition assessment
- Field measurement recording and subsequent review
- Maintenance investigation for electricity distribution assets

Specifications

General	
Detection method	RF pulse detection
Signal processing	On-device pulse analysis
Measurement indicators	Average level, maximum level and threshold-exceedance frequency
Data link	Wi-Fi / UDP
Operator terminal	Windows computer or tablet
Data handling	Live display, binary recording and playback
Field installation	Battery-powered, magnetic vehicle mounting

Warranty

All hardware and software procured from Zeta is under warranty against manufacturing or design failures for 2 years. Customer-specific warranty terms may be arranged.

Disclaimer

Due to ongoing research and development, Zeta reserves the right to change product specifications without notice.

About Zeta

Zeta Defence develops electronic intelligence (ELINT) and communication intelligence (COMINT) equipment and radar / electronic warfare simulators. Its capabilities include RF transceiver system design, digital design and large-scale software development.

Contact

ZETA SAVUNMA ELEKTRONİK YAZILIM VE DANIŞMANLIK SANAYİ TİCARET A.Ş.
Teknopark İstanbul, Sanayi Mahallesi Teknopark Bulvarı No: 1/2C - 2108, 34906 Pendik / İSTANBUL
Tel +90 216 510 22 55 · zeta@zetasavunma.com · www.zetasavunma.com