



Magnetotelluric (MT) systems

KMS Technologies provides variety of Magnetotelluric (MT) systems, these systems are customized, fit for purpose and lower cost. All systems work with the NOISE-FREE web access box (KMS-WAB) for real-time data access from anywhere and fast onsite or remote QA/QC with optional add-on KMS cloud services.

1. LEMI-423 broadband MT system

- Lowest power consumption - <0.35 W
- Frequency band – DC – 1,000 Hz
- 3 LEMI-120 induction coils
- Geophysical exploration, volcanic eruption & earthquake monitoring



2. LEMI-424 MT system

- Lowest power consumption - <0.35 W
- Frequency band – DC – 10 Hz
- One 3 component fluxgate
- Crustal investigations; used by US MT array



3. Mini-MT system

- Low power consumption - <5 W
- Frequency band – DC - 180 Hz
- Crustal investigation; MT & CSEM
- MT system in a suitcase < 30 Kg



4. Super broadband MT system

- Low power - <5 W
- One coil for MT & AMT
- Frequency band - 0.00025 - 10,000 Hz
- MT, AMT, CSEM
- Industrial system for operational efficiency



5. Standard MT system

- Low power - <5 W
- Frequency band - 0.0001 - 1,000 Hz
- Crustal investigation, MT, CSEM



6. MT/AMT system

- Low power - <5 W
- MT Frequency band - 0.0001 - 1,000 Hz
- AMT Frequency band – 1 - 70,000 Hz
- Lowest noise operation

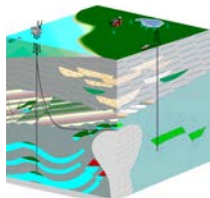


7. MT MAX system – 11 channels

- Low power - <5 W
- MT, AMT, and Fluxgate sensor included

Web access box (KMS-WAB)

- NOISE FREE data
- Real-time control
- Easy to use
- Works with KMS-820, LEMI-423 & LEMI-424



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Advantages

➤ Customized, fit-for-purpose saves cost
➤ Smooth, switch-free single time series (no band limited acquisition)
➤ Easy, windows-driven operation
➤ Real-time data access from anywhere using noise-free web access box
➤ Fast in field results
➤ Remote QA/QC and calibration
➤ On site automated data processing
➤ Autonomous recording MT/AMT via scheduler

Specifications

System	Frequency band	Noise	Components	Comments
LEMI-423	DC – 1,000 Hz	$\leq 10 \text{ pT}/\text{Hz} @1 \text{ Hz}$	LEMI-423 & LEMI-120 Various options	Low cost, ideal for geophysical exploration
LEMI-424	DC - 10 Hz	$\leq 10 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	LEMI-424 & Fluxgate Various options	Lowest cost, standard for research applications
Mini-MT	DC - 180 Hz	$\leq 6 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	KMS-820 & Fluxgate	MT system in suitcase. ENTRY LEVEL system
Broadband MT	0.00025 - 10,000 Hz	$\leq 0.3 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	KMS-820 & LEMI-152	Cost effective for industrial operational
Standard MT	0.0001 - 1,000 Hz	$\leq 0.1 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	KMS-820 & LEMI-120	Lowest noise system
MT/AMT	0.0001 - 1,000 Hz (MT)	$\leq 0.1 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	KMS-820, LEMI-118, & LEMI-120	Standard system for many years
	1 - 20,000 Hz (AMT)	$\leq 5 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$		
MT MAX	DC - 70,000 Hz	$\leq 6 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$ $\leq 0.1 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$ $\leq 5 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	KMS-820, Fluxgate, LEMI-120 LEMI-118	All in one MT solution