

Magnetotelluric (MT) systems

1. LEMI-424 MT system

- Lowest power consumption - <math><0.35\text{ W}</math>
- Frequency band – DC - 0.5 Hz
- Crustal investigations; Used by US MT array



2. Mini-MT system

- Low power consumption - <math><5\text{ W}</math>
- Frequency band – DC - 180 Hz
- Crustal investigation; MT & CSEM
- MT system in a suitcase <math><30\text{ Kg}</math>



3. Super broadband MT system

- Low power - <math><5\text{ W}</math>
- One coil for MT & AMT
- Frequency band - 0.00025 - 10,000 Hz
- MT, AMT, CSEM
- Industrial system for operational efficiency



4. Standard MT system

- Low power - <math><5\text{ W}</math>
- Frequency band - 0.0001 - 1,000 Hz
- Crustal investigation, MT, CSEM



5. MT/AMT system

- Low power - <math><5\text{ W}</math>
- MT Frequency band - 0.0001 - 1,000 Hz
- AMT Frequency band – 1 - 70,000 Hz
- Lowest noise operation

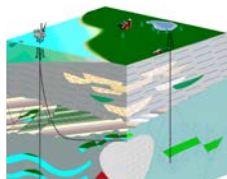


6. MT MAX system – 11 channels

- Low power - <math><5\text{ W}</math>
- MT, AMT, and Fluxgate sensor included

Web access box

- NOISE FREE data
- Real-time control
- Easy to use



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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
- Fast in field results
- Remote QA/QC and calibration
- On site automated data processing
- Autonomous recording MT/AMT etc via scheduler

Specifications

System	Frequency band	Noise	Components	Comments
LEMI-424	DC - 0.5 Hz	$\leq 10 \text{ pT}/\sqrt{\text{Hz}} @1 \text{ Hz}$	LEMI-424	Lowest cost, standard for research applications
Min-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