

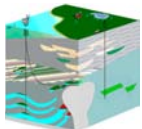
Long period telluric instrument



Product description

LEMI-152 magnetometer
0.00025 – 10,000 Hz
frequency range

The Long-Period Telluric Instrument LEMI-420E is for electric field telluric measurements – signals with periods of 20...100.000 seconds are recorded with very high sensitivity and low drift. To realize such design major attention was paid to thermal and temporal stability, high input impedance and low drift of electric channels. High-pass filter-free technology of input stages is used in order to let super-long period signals to pass. The lightning protection unit allows both the protection against nearby lightning discharges and easy connection of electric lines in the field. There are four electric channels in the instrument for measurements additionally of vertical component of telluric field or the components along some local geological structure. Specially developed very low noise LEMI-701 electrodes are recommended (at the photo, right), but any other electrode types may be used.



LEMI-420 components

KMS Technologies

KJT Enterprises Inc.

Product applications

Target applications are low frequency measurements for mining industry and crustal application as well as geothermal industry.

The system is made for low power field recording.

Product specifications

Frequency band	DC-0.5 Hz
Measured range	±2500 mV
Resolution	2 nV
Sample rate	1 per s
SD card	8 GB
Digital output and control	USB
GPS timing, coordinates & altitude determination (antenna cable length 3m)	
Operating temperature range	Minus 20 to +60°C
Power supply	(5-20) V
Power consumption	<0.35 W

www.LEMIsensors.com

www.KMSTechnologies.com