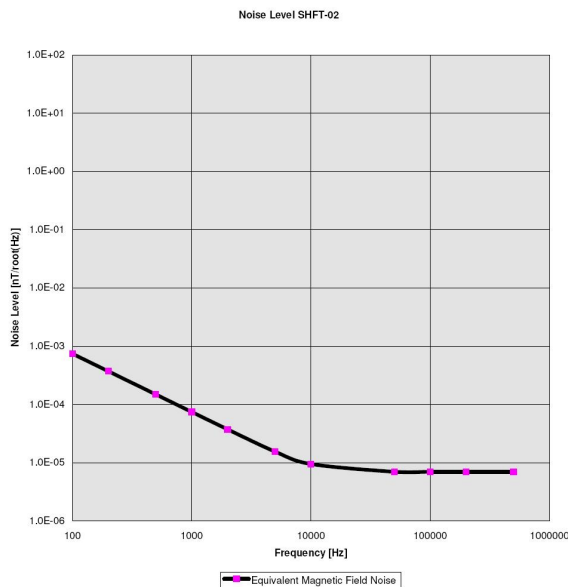
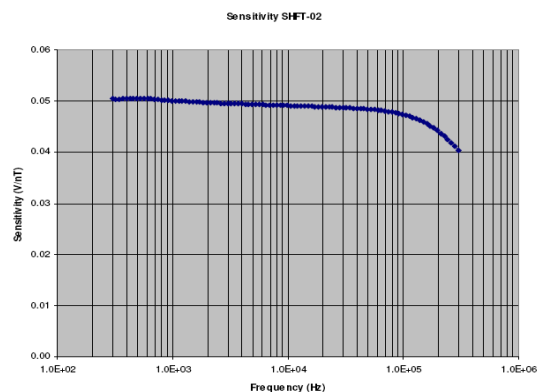


## SHFT-02e Super-High-Frequency Triple

The Super High-Frequency induction coil Triple *SHFT-02e* has been developed for applications in Audio Magnetotellurics (AMT), Radio Magnetotellurics (RMT) and Controlled Source Magnetotellurics (CSMT). It covers a frequency range from 1 kHz up to more than 300 kHz.. The *SHFT-02e* shows outstanding low-noise characteristics, and a stable transfer function over temperature and time. The *SHFT-02e* is a result of more than 35 years of experience of metronix in the design, manufacture and application of induction coil magnetometers.



Only one SHFT-02e is required to measure the magnetic field variations in 3 orthogonal axis. The sensors and its electronics are enclosed in a shock resistant plastic case. The SHFT-02e is connected to the metronix *ADU-07* data logger (or any other custom electronics) by a cable of up to 10 m length. The high quality of the *SHFT-02e* data is achieved by a unique design for the ultra low noise preamplifier.



## Technical data:

Frequency range	1 kHz ..... 300 kHz
Frequency bands	1 kHz ..... 300 kHz (chopper off) n/a (chopper on)
Sensor noise	5*10 <sup>-5</sup> nT/√Hz @ 1 kHz 8*10 <sup>-6</sup> nT/√Hz @ 10 kHz 6*10 <sup>-6</sup> nT/√Hz @ 100 kHz
Output sensitivity	0.05 V/ nT      f > 1kHz  for exact values refer to individual calibration file
Output voltage range	+/- 10V
Function	Induction coil with current amplifier
Connector	17 pole M23 connector
Supply voltage	+/- 12V to +/- 18V internally stabilized and filtered
Supply current	+/- 60 mA
Case	ruggedized, waterproof
Weight	appr. 5.5 kg
External dimensions, without tripod	170 x 190 x 170 mm (LxWxH)
Operating temperature range	-25°C ..... + 60°C

Metronix Messgeraete und Elektronik GmbH  
Kocherstrasse 3  
38120 Braunschweig, Germany

Phone: +49 531 8668 0  
Fax: +49 531 8668 555  
E-mail: [geo@metronix.de](mailto:geo@metronix.de)  
[www.metronix.de](http://www.metronix.de)