



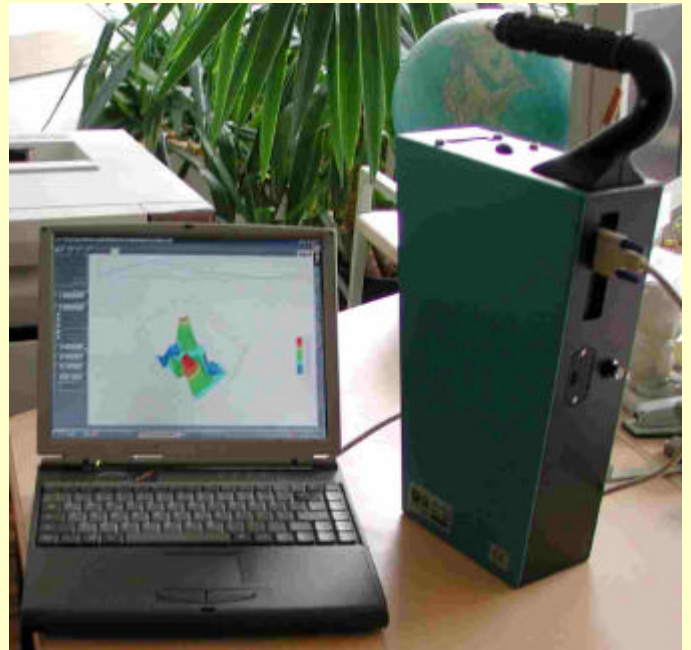
Geophysical Exploration Systems

About us:

EMFAD® - GmbH&Co.KG is a geophysical company which was established 1993 in Neuwied/Germany. In cooperation with different universities, the business-originators have employed their long-time experience in the use of geophysical electromagnetic procedures for the development of the EMFAD® – Detector, (EMFAD® = **E**lectro**M**agnetic **F**ield**A**nomaly **D**etection). The world-wide success of the EMFAD®-UG 12, which is produced since 1997 for geophysical ground-examinations, will be continued with the successor instrument EMFAD® - UG 12/4.

Technical Information:

- **Passive electromagnetic sensor system:**
Does not need own active transmitter
- **Receiver frequency range:** 44-142 kHz
- **Microprocessor controlled measurement**
- **Probe recording:** Readings stored automatically 1/s
- **Datenlogger:** Capacity 16.000 readings per area investigated
- **Data point density:** Dependent on step-length and distance between measured profiles ≥ 10 cm
- **Depth of localization:** up to 12 m
- **Resolution:** 10 Bit/5V
- **Dimensions/Weight:** 48x26x10 cm, 2 kg
- **Power supply:** 2 x 9V Batteries (ALKALINE), for an operating time of approximately 20 hours
- **Ambient temperature:** -20 to 55 C
- **Data processing:** With software EMFAD®-SCAN for 2D and 3D presentations, interpretation, modeling, documentation and printing.
- **Data export:** For further processing and documentation to Microsoft®-EXCEL and SURFER® from Golden Software.



Data output/exchange from EMFAD®-UG 12/4 to a Notebook (or PC) via RS-232 interface for data processing with the evaluation- and presentation software **EMFAD®-SCAN**.

The **EMFAD® – measuring method** is based on the evaluation of electromagnetic field data caused by anomalies in the subsoil from:

- Conductive materials, such as metal, pipes, barrels, cables, reinforced concrete, electrolytic effluents, etc.
- Irregularities like cavities, graves, faults, shafts, ground fills, deposits, caves, tunnels, landfills.

The EMFAD® – Technology has been successfully deployed in practice under various different climatic and geological conditions from professionals as well as from hobby researchers. Fields of application predominantly are archeology, geophysics, geology, hydrology and treasure locating in very different application areas as surveying industrial waste sites and waste deposits, building lots, mining areas, street-construction sites, military practice sites and other soil investigation.

EMFAD® – Geophysikalische Umweltmesstechnologie GmbH & Co. KG
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