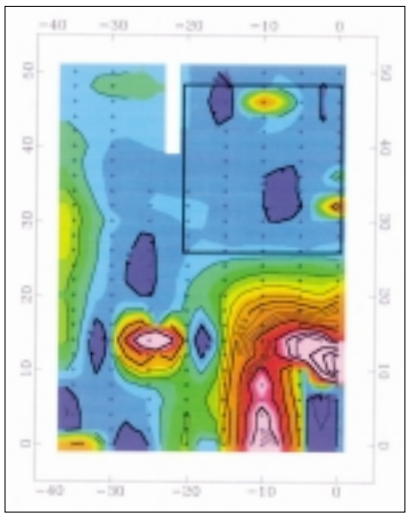
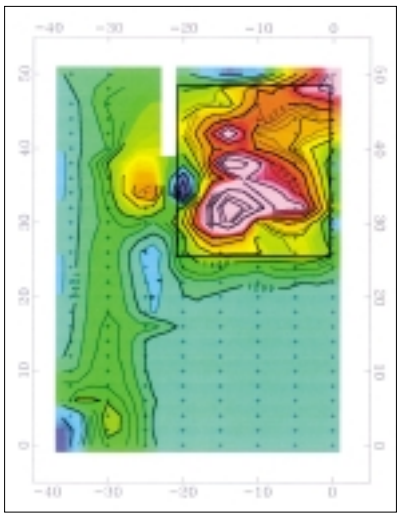
BURIED WATER TANK LOCATION, BRNO AREA (CM-031)



Apparent Resistivity Map



Inphase Component Map

The CM conductivity meters are dipole electromagnetic instruments designed for fast and accurate geophysical site survey.
The three models cover a measuring range to the depth of 6 meters.
The CM-138 was designed for shallow survey (to 1.5 m depth), CM-032 for middle depths to 3 m, and CM-031 takes the data from the depth to 6 metres.
All contactless conductivity meters are useful for many environmental surveys (e.g. pollution plumes, buried waste), geotechnical measurements, for mapping of geological boundaries, for the use in archaeology, agriculture and buried metal objects detection.
Two parameters are measured simultaneously - the apparent conductivity (mS/m) of ground and the in-phase component of the induced magnetic field, which permits the detection of buried metal objects.
The instruments are operated in a user-friendly way from a built-in palmtop PC unit. Both measured values are displayed on the graphic screen continuously during the measurement and saved in the internal memory capable of storing results from hundreds of measured lines. Backup batteries prevent loss of data from the memory.
The digital design of the instruments ensures a high resistance to industrial sources of electromagnetic noise. In addition to this the data can be stacked to improve the signal to noise ratio.
The measurements can be done either in vertical or horizontal position of the instrument (dipoles) in manual or automatic mode.
Communication software allows transfer of data from the instrument's memory to the user's computer for further processing or presentation using mapping software (e.g. Surfer, Geosoft).

	CM-031	CM-032	CM-138
EFFECTIVE DEPTH RANGE:	max. 6m	max. 3m	max. 1.5m
OPERATING FREQUENCY:	9,765 kHz	12 kHz	14.406 kHz
DIPOLE CENTRE DISTANCE:	374cm	200cm	100cm
WORKING/SHIPPING WEIGHT:	10/32 kg	8/25 kg	6/18 kg
WORKING LENGTH:	405 cm	205 cm	111 cm
SHIPPING DIMENSIONS:	148x31x24 cm	120x31x24 cm	114x30x20 cm
	(rugged aluminium case)		

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REPRESENTED BY:

Technical Specifications

CM-031, CM-032, CM-138

MEASURING RANGE:
Apparent conductivity: 0,1 - 1000 mS/m
In-phase: 1 - 4000 relative units

MEASURING SENSITIVITY:
Apparent conductivity: 0,1 mS/m
In-phase: 1 relative unit

MEASURING MODES:
- conductivity / resistivity
- linear / logarithmic scale
- manual / automatic stability checking
- immediate indication
- stacking
- two points calibration

POWER SUPPLY:
- rechargeable 4,5 Ah NiCd cells (14 pcs)

CONTINUOUS WORKING TIME WITHOUT BATTERY RECHARGING: min.16 hours

CONTROL UNIT: PC Palmtop with graphic screen

DATA MEMORY SIZE: min. 2 MB

DATA TRANSFER: serial channel RS-232C (software support is included)

Standard Accessories:

CM-031 and CM-032
battery charger
PC connecting cable and communication software
car transport board
two extra bolts
simple belt and harness for carrying during measurement
diskette with backup files
operating manual
transport case

CM-138
carrying rod with handle and buttons
battery charger
PC connecting cable and communication software
diskette with backup files
operation manual
transport case

Optional Accessories:

CM-031, CM-032 and CM-138
GPS data port (Garmin compatible)

With reservations for changes

CONDUCTIVITY METERS

CM-138 CM-032 CM-031

Electromagnetic systems for environmental monitoring, agriculture, groundwater protection, archaeology, geological and geotechnical investigations, metal objects and networks detection, raw materials prospection and purposes of civil engineering.
Contactless measurements of ground are carried out to an effective exploration depth of six meters.

GF Instruments