

**I+ designation, with improved transmitter efficiency and increased dipole moments**

- ❑ Designed for groundwater and mineral exploration, and for geoengineering applications, continuing and expanding the concepts of the earlier and highly popular MaxMin models.
- ❑ Frequency span is extended to eight octavely spaced frequencies from 110 to 14080 Hz, with 11 coil separations from 12.5 to 400 or from 10 to 320 metres. These and other developments result in greater performance, more applications and enhanced interpretation.
- ❑ Advanced spheric and powerline interference rejection is still further improved, resulting in faster and more accurate surveys, particularly at the larger coil separations.
- ❑ MaxMin Computer or MMC, which is described in a separate data sheet, is offered for digital data processing, display, storage and transfer. The MMC displays and stores the in-phase and quadrature readings, their standard deviations, and the corresponding apparent ground conductivity values. Rough terrain surveys are also simplified with the MMC.
- ❑ MaxMin Pro data interpretation and presentation software program is available for layered earth parametric soundings and discrete conductor surveys done with MaxMin.



TRANSMITTER



RECEIVER + MMC

## MAXMIN I+8 ELECTROMAGNETIC SYSTEM SPECIFICATIONS:

**OPERATING FREQUENCIES:** 110, 220, 440, 880, 1760, 3520, 7040 and 14080 Hz.

**COIL SEPARATIONS:** SET No. 1: 12.5, 25, 50, 75, 100, 125, 150, 200, 250, 300 and 400 metres (the standard set).  
SET No. 2: 10, 20, 40, 60, 80, 100, 120, 160, 200, 240 and 320 metres (selected with grid switch inside the receiver).  
SET No. 3: 50, 100, 200, 300, 400, 500, 600, 800, 1000, 1200 and 1600 feet (selected with grid switch inside the receiver).

**TRANSMITTER DIPOLE MOMENTS:** 110 Hz: 250  $\text{Atm}^2$     1760 Hz: 200  $\text{Atm}^2$   
220 Hz: 245  $\text{Atm}^2$     3520 Hz: 110  $\text{Atm}^2$   
440 Hz: 240  $\text{Atm}^2$     7040 Hz: 55  $\text{Atm}^2$   
880 Hz: 225  $\text{Atm}^2$     14080 Hz: 28  $\text{Atm}^2$

**MODES OF OPERATION:** MAX 1: Horizontal loop or slingram - transmitter and receiver coil planes horizontal and coplanar.  
MAX 2: Vertical coplanar loop mode - transmitter and receiver coil planes vertical and coplanar.  
MIN 1: Perpendicular mode 1 - transmitter coil plane horizontal and receiver coil plane vertical.  
MIN 2: Perpendicular mode 2 - transmitter coil plane vertical and receiver coil plane horizontal.

**PARAMETERS MEASURED:** In-phase and quadrature components of the secondary magnetic field, in % of primary field.

**READOUTS:** Analog direct edgewise meter readouts for in-phase, quadrature and tilt. Additional digital LCD readouts provided in the optional MMC computer. Interfacing and controls are provided for ready plug-in of the MMC.

**RANGES OF READOUTS:** Switch activated analog in-phase and quadrature scales:  $0 \pm 4\%$ ,  $0 \pm 20\%$  and  $0 \pm 100\%$ , and digital  $0 \pm 199.9\%$  autorange with optional MMC. Analog tilt  $0 \pm 75\%$  and  $0 \pm 99\%$  grade with MMC.

**RESOLUTION:** Analog in-phase and quadrature 0.1 to 1 % of primary field, depending on scale used, digital 0.01 % with autoranging MMC; tilt 1 % grade.

**REPEATABILITY:** 0.01 to 1 % of primary field, typical, depending on frequency, coil separation and conditions.

**SIGNAL FILTERING:** Powerline comb filter, continuous spheric noise clipping, autoadjusting time constant, and more.

**WARNING LIGHTS:** Receiver signal and reference warning lights to indicate potential error conditions.

**SURVEY DEPTH PENETRATION:** From surface down to 1.5 times coil separation for large horizontal target and 0.75 times coil separation for large vertical target, values typical.

**REFERENCE CABLE:** Lightweight unshielded 4/2 conductor teflon cable for maximum operating temperature range and for minimum pulling friction.

**INTERCOM:** Voice communication link provided for operators via the reference cable.

**TEMP. RANGE:** Minus 40 to plus 60 degrees Celsius, operating.

**RECEIVER BATTERIES:** Four standard 9 V - 0.6 Ah alkaline batteries. Life 20 hours continuous duty, less in cold weather.

**TRANSMITTER BATTERIES:** Rechargeable sealed lead-acid 12 V -14 Ah batteries (4 x 6 V - 7.2 Ah) in nylon belt pack.

**TRANSMITTER BATTERY CHARGERS:** Nominal output of 14.7 V - 2 A, with automatic switching to float mode after the battery pack is charged. Operation from 110 - 120 and 220 - 240 VAC, 50/60 Hz supplies.

**RECEIVER WEIGHT:** 8 Kg carrying weight (including the two ferrite cored receiver coils), 9 Kg with MMC computer.

**TRANSMITTER WT:** 16 Kg carrying weight.

**SHIPPING WEIGHT:** 60 Kg plus reference cables at 3 Kg per 100 metre, plus optional items if any. Shipped in two aluminum lined field / shipping cases.

**STANDARD SPARES:** Spare transmitter battery pack, spare transmitter battery charger, two spare transmitter retractile connecting cords, spare set of receiver batteries.

**OPTIONS AND ACCESSORIES, PLEASE SPECIFY:**

- ◆ MMC, Optional MaxMin Computer
- ◆ Data interpretation and presentation programs
- ◆ Reference cables, lengths as required
- ◆ Reference cable extension adapter
- ◆ Handheld inclinometer for rough terrain
- ◆ Transmitter NiMH battery and charger option
- ◆ Minimal, regular or extended spare parts kit

Specifications and availability are subject to changes without prior notification.

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