

ding. The field tapes are never overwritten and are kept for permanent data storage, as well as the corresponding diskette which contains the edited files and records of their plots. A cassette can record more than 5,000 sets of measurements, the equivalent more than two weeks of surveying. A diskette can also store a similar amount of data.

UTEM 3 COMPONENTS

TRANSMITTER

The Transmitter outputs a precisely regulated current of triangular waveform in a large loop of wire. The output current, once set is not dependant on any changes in the resistance of the loop. The waveform is also regulated independently of the loop impedance. It is possible to accomodate a range of loop resistances (i.e. loop sizes) by adjusting the supply voltages which are also regulated.

The transmitter is powered by a modified 1750 Watt Koehler motor generator producing 120 Volt AC. The motor is equipped with a fuel pump and five gallon external fuel tank to run for a full day without refuelling.

Power ratings:

Peak output power:	1200 Watt
Current output:	+/- 5 A in a 16 Ohm loop
	+/- 5 A in a 32 Ohm loop
	+/- 4 A in a 64 Ohm loop = 1 km ²
	+/- 2.5 A in a 100 Ohm loop
Weight:	20.5 kg including internal battery(45
Dimensions:	38 cm Y 27 cm X 27cm (15"X10.5"X10.5"
Maximum input continuous power:	1200 Watt
Input AC voltage:	110 V minimum; 130 V maximum.

Front panel controls:

Current range switch:	6A or 3A	Toggle sw.
Display mode switch:	Battery check	
	Monitor: display as per	
	Function sw.	