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# CORROSION MONITORING



## WAIKURA RECTIFIER

### Description:

This device is an accessory for the Waikura Data Logger and is intended for recording the parasitic AC voltages found on buried pipelines which have Cathodic protection applied.

It comprises a passive rectifier, which extracts the peak to peak voltage on the pipe at all frequencies from approximately 1 Hz to 5 kHz. This voltage is divided by a factor and applied to channel 1 of a Waikura 512K logger. The factor is adjusted such that a 100V 50 Hz sinewave produces a 10 V DC output.

Thus to calculate the RMS AC voltage on the pipe from the DC recordings of the Waikura multiply the reading by 10.

**Note:** The early model 128K Waikura has a 2 M Ohm input resistance so readings will be about 10% low.

### Rectifier Specifications:

Input Voltage Range	0 to 100 V RMS, 1Hz to 5Khz
Output Voltage	0 to 10 Volts DC into a 10 MOhm load
Input impedance	10 MOhm
Terminals	Binding posts spacing 0.75". (The black terminals are connected internally)