

5 SPECIFICATIONS³

Parameter	Value	Units
5.1 Absolute Maximum Ratings		
Maximum instantaneous input voltage:	25	kV
Maximum sustained input voltage (>1s all waveforms):	16 20	kV (rms) kV (peak)
5.2 Electrical Characteristics		
Voltage measurement range	0.05 - 12.000	kV (rms)
Nominal Accuracy ⁴ (sinusoidal waveform only)	±(0.3% reading + 0.002) kV	
Display resolution	±0.001	kV
Frequency range	45 - 65	Hz
Crest factor range ⁵ (all waveforms):	1.0 - 2.0	
Input resistance to Divider Unit	100	MΩ
5.3 Environmental		
Operating temperature range	15 - 30	°C
Storage temperature range	0 - 45	°C
Humidity (non-condensing)	10 - 85	%
5.4 Power source		
Four (4) x NiMH rechargeable cells (AA size).		
Endurance in continuous operation (active mode):	20 (typ.)	h

3. All specifications relate to a sinusoidal voltage waveform and an ambient temperature of 25°C, except where otherwise noted.

4. Guaranteed for **six (6) months** from the date of initial despatch from the factory, provided always that no "exceptional events" have occurred during this period. For more information about accuracy limits and recommended re-calibration intervals, please contact the factory.

5. Crest Factor is defined by $K_C = U_{PEAK}/U_{RMS}$

6 MAINTENANCE

There are no regular maintenance items applicable to this system. Periodically clean the divider column and the instrument front panel with a clean damp cloth. Do not use abrasives or solvents.

For information about recommended calibration intervals and procedures please contact the factory.

7 ELECTROMAGNETIC COMPATIBILITY

Type 5912 is designed for full compliance with the requirements of Australian and New Zealand Standards for electromagnetic compatibility (EMC).

8 ORDERING INFORMATION

5912SX: Precision kilovoltmeter, complete with divider unit, connecting cable, and instruction manual.

5912.01: Divider unit.

5912.02: Shielded connecting cable.

5912.03: Silicone-insulated high voltage test cable (5m length - unterminated).

5912.04: Battery charger for NiMH batteries.

5912.05: Test module.

5912M: User manual (The pdf version is available for download from our website).