

EMC Test Certificate

This certificate of compliance is hereby issued by Laird Technologies to the named manufacturer and is valid only for the equipment identified below.

Product Description:

Leland Legacy

Manufacturer:

SKC, Inc.

Address:

863 Valley View Road Eighty-Four, PA 15330

City, State Zip Code: Phone:

724-941-9704

Peter Hall

Purchase Order Number:

Fax:

PO-60907

724-941-2184

Contact Name: Order Number: Test Period:

217471

16 April 2004 and 15, 16, 22 July 2004

Product Standard: EN 61326 Table A.1				
Conducted	EN 55011: 1998	Class B	230 VAC/ 50 Hz	Complied
Emissions	+ A1 August 1999			1
Radiated Emissions	EN 55011: 1998,+ A1 August 1999	Class B	230 VAC/ 50 Hz	Complied
Electrostatic	EN 61000-4-2:1995, +A1 April 1998	2, 4, 8 kV	230 VAC/ 50 Hz	Complied
Discharge			-	<u> </u>
Radiated Immunity	EN 61000-4-3:2002, +A1 October2002	10 V/m from 80 MHz to	230 VAC/ 50 Hz	Complied
·		1.0 GHz and 1.4 to 2 GHz		1.
Electrical Fast	EN 61000-4-4:1995,+A1:February	2 kV on AC mains	230 VAC/ 50 Hz	Complied
Transient	2001, +A2: August 2001			, -
Fast Surges	EN 61000-4-5: 1995	0.5, 1, 2 kV CM and 0.5, 1	230 VAC/ 50 Hz	Complied
	+ Corrigendum October 1995	kV DM on AC mains		1
Conducted RF	EN 61000-4-6: 1996,+ A1and A2 2001	3 V/rms	230 VAC/ 50 Hz	Complied
Disturbances	Corrigendum No.1 December 2001			Ţ,
Power Frequency	EN 61000-4-8	30 A/m	230 VAC/ 50 Hz	Complied
Magnetic Field	+A1 October 2001			
Voltage Variations	EN 61000-4-11: 1994	-100%, 10 ms	230 VAC/ 50 Hz	Complied
	+A1 February 2001	positive/negative polarity		

Product Modifications:

Leland Pump main PCB was revised to Issue 5, incorporating the following modifications:

- Added Capacitor C32 (0.22µF) and Resistor R33 (4.7K) to the microprocessor rest line to eliminate spurious resetting from ESD events.
- Added ground plane and a metal shielding can to cover sensitive components around IC2 (flow sensor amplifier). This eliminated problems with radiated immunity testing.

Single Li-Ion batter charge main PCB was revised to Issue 6, incorporating the following modifications:

Added capacitors C8 (1µF), C9 (47 nF) and C10 (47 nF), to eliminate radiation from the switch mode charging circuit.

Test Details

The EUT was tested at 230 VAC/ 50 Hz with a rated current of 0.4 amps. The crystal operating oscillator frequencies were 32.768 kHz and 4.19 MHz. The air sampling pump was set up to run continuously to maintain a preset level of 10 liter per minute (LPM) of air flow while the AC power/charging plug was attached to the EUT.

Test Summary Statement

Testing was performed by the Laird Technologies facility in Delaware Water Gap, PA. The test sample as tested was found to be in compliance with the standards listed above. In correspondence concerning this certificate, please refer to the date, manufacturer name and order number 217471.

Authorized By

<u>7December 2004</u>