

EC Declaration of Conformity

MANUFACTURER: Lion Precision
563 Shoreview Park Road
St. Paul, MN 55126-7014

APPARATUS: Elite Series Capacitive Sensors

TYPES: CPL190, CPL290, TMP190, MM190, EN191,
EN192, EN193, EN196, EN198

This Apparatus conforms to the following European Directives:

Directive 2004/108/EC Electromagnetic Compatibility Directive.

Directive 2006/95/EC Low Voltage Directive

The following standards were used to assess the products:

Standard: IEC 61326-1:2005-12
Electrical equipment for measurement, control and laboratory use EMC requirements.

Standard: IEC 61326-2-3:2006-07
Particular Requirements – Test Configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning..

Standard: EN 61010-1:2001 IEC 61010-1:2001(+C1 & C2)
Safety requirements for electrical equipment for measurement, control, and laboratory use.

Date of issue: 12 May, 2009



Don Martin, President

IMMUNITY: IEC 61326-2-3**ENCLOSURE:**

TEST	STANDARD	TEST VALUE	COMPLIANCE
ELECTROSTATIC DISCHARGE	IEC 61000-4-2	4 kV/8 kV contact/air	Criterion A
EM FIELD	IEC 61000-4-3	10 V/m	Criterion B
RADIATED POWER FREQ MAGNETIC FIELD	IEC 61000-4-8	30 A/m	Criterion A

AC POWER:

TEST	STANDARD	TEST VALUE	COMPLIANCE
VOLTAGE DIP/SHORT INTERRUPTIONS	IEC 61000-4-11	0,5 cycle, each polarity/100%	Criterion A
BURST	IEC 61000-4-4	2 kV	Criterion A
SURGE	IEC 61000-4-5	1 kV/2 kV	Criterion A
CONDUCTED RF	IEC 61000-4-6	3 V	Criterion B

I/O SIGNAL/CONTROL:

TEST	STANDARD	TEST VALUE	COMPLIANCE
BURST	IEC 61000-4-4	2 kV	Not applicable. All I/O lines less then 3m in length.
SURGE	IEC 61000-4-5	1 kV/2 kV	
CONDUCTED RF	IEC 61000-4-6	3 V	

EMISSIONS: IEC 61326-2-3 CLASS A

TEST	RANGE	LIMITS
ENCLOSURE	30 to 230MHz	40db (μ V/M)quasi peak, measured at 10 m
	230 to 1000MHz	47db (μ V/M)quasi peak, measured at 10 m
AC MAINS	0.15 to 0.5 MHz	79db (μ V)quasi peak 66db average
	0.5 to 5 MHz	73db (μ V)quasi peak 60db average
	5 to 30 MHz	73db (μ V)quasi peak 60db average

ELECTRICAL SAFETY: EN 61010-1:2001

A representative unit has been inspected and tested against the relevant requirements of BS EN 61010-1.