
EU Declaration of Conformity

We Thurlby Thandar Instruments Ltd
Glebe Road
Huntingdon
Cambridgeshire PE29 7DR
England

declare that the product

LD400 or LD400P DC Electronic Load

is in conformity with the relevant Union harmonisation legislation; in particular, it meets the intent of the EMC Directive 2014/30/EU and the Low Voltage Directive 2014/35/EU. Compliance was demonstrated by conformance to the following harmonised standards which have been listed in the Official Journal of the European Communities.

EMC


Emissions: a) EN61326-1 (2013) Radiated, Class B
 b) EN61326-1 (2013) Conducted, Class B
 c) EN61326-1 (2013) Harmonics, referring to EN61000-3-2 (2006)

Immunity: EN61326-1 (2013) Immunity Table 1, referring to:
 a) EN61000-4-2 (2009) Electrostatic Discharge
 b) EN61000-4-3 (2006) Electromagnetic Field
 c) EN61000-4-11 (2004) Voltage Interrupt
 d) EN61000-4-4 (2012) Fast Transient
 e) EN61000-4-5 (2006) Surge
 f) EN61000-4-6 (2009) Conducted RF

Safety

EN61010-1 Installation Category II, Pollution Degree 2.

This declaration of conformity is issued under the sole responsibility of the manufacturer.
Signed for and on behalf of Thurlby Thandar Instruments Ltd.



IAN HARMAN
TECHNICAL DIRECTOR

TTi Ltd, Huntingdon, UK
2nd February 2017



This instrument has been designed to meet the requirements of the EMC Directive 2014/30/EU. Compliance was demonstrated by meeting the test limits of the following standards:

Emissions

EN61326-1 (2013) EMC product standard for Electrical Equipment for Measurement, Control and Laboratory Use.

Test limits used were:

- a) Radiated: Class B
- b) Conducted: Class B
- c) Harmonics: EN61000-3-2 (2006) Class A; the instrument is Class A by product category.

Immunity

EN61326-1 (2013) EMC product standard for Electrical Equipment for Measurement, Control and Laboratory Use.

Test methods, limits and performance achieved are shown below:
(performance requirement shown in brackets):

- a) EN61000-4-2 (2009) Electrostatic Discharge: 8kV air, 4kV contact: Performance B (B).
- b) EN61000-4-3 (2006) Electromagnetic Field:
3V/m, 80% AM at 1kHz, 80MHz – 1GHz: Performance A (A)
and 1.4GHz – 2GHz: Performance A (A);
1V/m, 2.0GHz – 2.7GHz: Performance A (A).
- c) EN61000-4-11 (2004) Voltage Interrupt: ½ cycle and 1 cycle, 0%: Performance A (B);
25 cycles, 70%: Performance A (C); 250 cycles, 0%: Performance B (C).
- d) EN61000-4-4 (2012) Fast Transient:
1kV peak (AC line), 0.5kV peak (Load connections): Performance B (B).
- e) EN61000-4-5 (2006) Surge: 0.5kV (line to line), 1kV (line to ground): Performance B (B).
- f) EN61000-4-6 (2009) Conducted RF: 3V, 80% AM at 1kHz, 150kHz – 80MHz:
AC line only (all other connections <3m, therefore not tested): Performance A (A).

According to EN61326-1 the definitions of performance criteria are:

Performance criterion A: ‘During test normal performance within the specification limits.’

Performance criterion B: ‘During test, temporary degradation, or loss of function or performance which is self-recovering.’

Performance criterion C: ‘During test, temporary degradation, or loss of function or performance which requires operator intervention or system reset occurs.’

Cautions

To ensure continued compliance with the EMC directive observe the following precautions:

- a) After opening the case for any reason ensure that all signal and ground connections are remade correctly and that case screws are correctly refitted and tightened.
 - b) In the event of part replacement becoming necessary, only use components of an identical type, see the Service Guide.
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