



Nederlands Meetinstituut

Test certificate

Number **TC2720** Revision 1
Project number 10079859
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Issued by NMI Certin B.V.
Hugo de Grootplein 1
3314 EG Dordrecht
The Netherlands

Notified Body Number 122

In accordance with Paragraph 8.1 of the European Standard on Metrological aspects of non-automatic weighing instruments EN 45501:1992/AC:1993.

Applicant Telematic Ltd.
Alban Park, St Albans
Herts AL4 0XY
United Kingdom

In respect of The model of a **surge protection device** tested as part of a non-automatic weighing instrument.
Manufacturer : Telematic
Type : LC30

Characteristics In the description TC2720 Revision 1 further characteristics are described.

Description and documentation The surge protection device is described in the description number TC2720 Revision 1 and documented in the documentation folder number TC2720-2, appertaining to this test certificate.

Remarks Summary of tests involved: see Appendix number TC2720 Revision 1.
This revision test certificate replaces the earlier versions including the documentation folder.

Dordrecht, 6 October 1997
NMI Certin B.V.

A.J. Nederlof
Director

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1 General information about the surge protection device

All properties of the **surge protection device**, whether mentioned or not, may not be in conflict with the standard mentioned in the test certificate.

1.1 Essential parts

Description	Drawing number	Rev.	Remarks
printed circuit board lay out	ND-LC30-0595.1/6	-	components layout and parts list
LC30 PCB component part list	ND-LC30-0997.2/6	1	parts list

1.2 Essential characteristics

- series resistance 1 Ω ;
- minimum load cell impedance: 55 Ω ;
- maximum excitation voltage: 20 V AC, or 28 V DC;
- the excitation voltage is symmetrical to ground;
- for the Non-automatic weighing instrument: $e \geq 1 \mu V$.

1.3 Essential shapes

- The data plate is sealed against removal or will be destroyed when removed. The data plate consists of at least the following information:
 - manufacturer's mark, or name;
 - manufacturer's designation;
 - serial number and year of manufacture;
 - this test certificate number, TC2720.
- To secure components that may not be dismantled or adjusted by the user, the surge protection device has to be secured in a suitable manner on the locations indicated in the drawing "Sealing", drawing number ND-LC30-0595.1/7. The securing component has to bear either:
 - a mark of the manufacturer laid down in a notified body approved quality system (Annex II of the Directive 90/384/EEC), or
 - an official mark of a Member State of the EEC, or an other party to the EEA agreement.
- The components of the surge protection device are incapsuled in plastic to avoid humidity problems.

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Tests carried out for this test certificate on the surge protection device, type LC30.

Test	Type or version	Institute
Temperature effect on the span with minimum input impedance (20, 40, -10, 5 and 20 °C)	LC30	NMi
Temperature effect on no load indication	LC30	NMi