Australian Government
National Measurement Institute
Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S366

Issued by the Chief Metrologist under Regulation 60
of the
National Measurement Regulations 1999

This is to certify that an approval for use for trade has been granted in respect of the instruments herein described.

Novaris Model SL6-LCP Load Cell Protection Device

submitted by Novaris Pty Ltd
72 Browns Road
Kingston TAS 7050

NOTE: This Certificate relates to the suitability of the pattern of the instrument for use for trade only in respect of its metrological characteristics. This Certificate does not constitute or imply any guarantee of compliance by the manufacturer or any other person with any requirements regarding safety.

This approval becomes subject to review on **1/04/16**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern approved – interim certificate issued	4/03/99
1	Pattern approved – certificate issued	23/06/99
2	Pattern reviewed – variant 1 approved – certificate issued	1/06/06
3	Pattern & variant 1 reviewed & updated – certificate issued	26/04/12

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI (or NSC) S366' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI (or NSC) S366' in addition to the approval number of the instrument, and only by persons authorised by the submittor.

It is the submittor's responsibility to ensure that all instruments marked with this approval number are constructed as described in the documentation lodged with the National Measurement Institute (NMI) and with the relevant Certificate of Approval and Technical Schedule. Failure to comply with this Condition may attract penalties under Section 19B of the National Measurement Act and may result in cancellation or withdrawal of the approval, in accordance with document NMI P 106.

The values of the performance criteria (maximum number of scale intervals, etc.) applicable to an instrument incorporating the pattern approved herein shall be within the limits specified herein and in any approval documentation for the other components.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificates No S1/0/A or No S1/0B.

Special

The approval of these devices does not in any way indicate approval by NMI of any claims regarding the ability of these devices to protect load cells (or indicators) from damage. The approval means that the devices, when installed according to the manufacturer's specifications and within the limits of this approval, have not been found to detrimentally affect the performance of the weighing instrument.

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

TECHNICAL SCHEDULE No S366

1. Description of Pattern — approved on 4/03/99 re-approved 31/05/06

A Novaris model SL6-LCP load cell/weighing system protection device (Figure1) one or two of which may be inserted in the cabling of load cells which are approved for use with up to 5000 verification scale intervals and with a maximum excitation voltage of 12 V or 24 V, AC or DC.

May also be known as a model LCP. May also be known as a Novaris Technologies device of the same models.

NOTE: The devices are intended to protect load cells from damage caused by lightning, however this approval does not in any way imply that such protection will result from the use of these devices.

1.1 Method of Mounting

Installation is to be in accordance with the manufacturer's instructions and may include a surge reduction filter in the mains supply to the digital indicator.

Figure 2 show a typical installation and wiring arrangement.

NOTE: Where the load cell is wired in a 4 wire system and it is necessary for the cable supplied with the cell to be cut in order to insert the load cell protection device(s), the cable cut-off should not be discarded but should be used to continue the load cell wiring.

1.2 Markings

The following is the minimum data required to be marked on the load cell protection device:

Manufacturer's mark, or name written in full	Novaris Pty Ltd
Model designation	.....
Serial number	.....
Pattern approval mark	NMI (or NSC) S366

2. Description of Variant 1 — approved on 31/05/06

Certain other models of the SL6 series of protection devices which are similar to the pattern (model SL6-LCP or LCP) however they are designed for systems with different excitation voltages and may use a slightly different circuit board and be supplied as a module, i.e. without the metal enclosure. Approved models are shown in Figures 3 and 4, and are listed below:

(a) SL6-LCP-36 — Clamping voltage 36 V, recommended for excitation voltages of 24 V AC or DC. Sealed metal enclosure.

(b) SL6-LCP-36/PCB — Clamping voltage 36 V, recommended for excitation voltages of 24 V AC or DC. Assembled printed circuit board module only.

(c) SL6-LCP-18 — Clamping voltage 18 V, recommended for excitation voltages of 12 V AC or DC. Sealed metal enclosure. Not for use on 24 V systems.

(d) SL6-LCP-18/PCB Clamping voltage 18 V, recommended for excitation voltages of 12 V AC or DC. Assembled printed circuit board module only. Not for use on 24 V systems.

The models SL6-LCP-36/PCB and SL6-LCP-18/PCB may only be used within a user-supplied earthed metallic enclosure which protects the module from dust and moisture (the manufacturer may be contacted for recommendations regarding suitability of enclosures). In Figure 3 (b), the dashed line represents the metallic enclosure; the enclosure may contain more than one device and may also contain the indicator or summing junction.

All models shall be marked in accordance with the requirements of clause **1.2 Markings**.

FIGURE S366 – 1

Novaris Model SL6-LCP Load Cell Protection Device

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