Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S739

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.

Rice Lake RL5416 Load Cell

submitted by Rice Lake Weighing Systems Europe B.V.
Weiland 11
Heteren
NL-6666 MH
The Netherlands

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 has been granted with reference to document NMI R 60, *Metrological Regulation for Load Cells*, dated July 2004.

This approval becomes subject to review on 1/02/22, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	16/1/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number ‘NMI S739’ and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked ‘NMI S739’ 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.

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

Dr A Rawlinson

TECHNICAL SCHEDULE No S739

1. Description of Pattern **approved on 16/01/17**

A Rice Lake model RL5416 stainless steel Compression load cell of 40 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 4000 verification scale intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 2.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Rice Lake Weighing Systems Europe B.V.
Model number	RL5416
Maximum capacity, E_{max}	..…... kg (or t)
Serial number	..…...
Pattern approval mark	NMI S739

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 16/01/17**

Certain other capacities of the Rice Lake RL5416 with same characteristics as the pattern are listed in Table 1.

TABLE 1

Model Number	RL5416							
E_{max} (kg)	10 000	15 000	20 000	25 000	30 000	35 000	40 000	50 000
Class	C	C	C	C	C	C	C	C
nLC	4000	4000	4000	4000	4000	4000	4000	4000
V_{min} (kg)	0.714	1.071	1.429	1.786	2.143	2.500	2.857	3.571
DR (kg)	1.111	1.667	2.222	2.778	3.333	3.889	4.444	5.556
mV/V	2							
Input imp (Ω)	800							
Voltage (V)	15							
Cable length (m)	Manufactured in various lengths between 10 metres to 25 metres. The cable length other than the nominal value of 20 metres appending to the model number in brackets, and so marked on the data plate.							
Number of leads	6 (plus shield)							

Where:

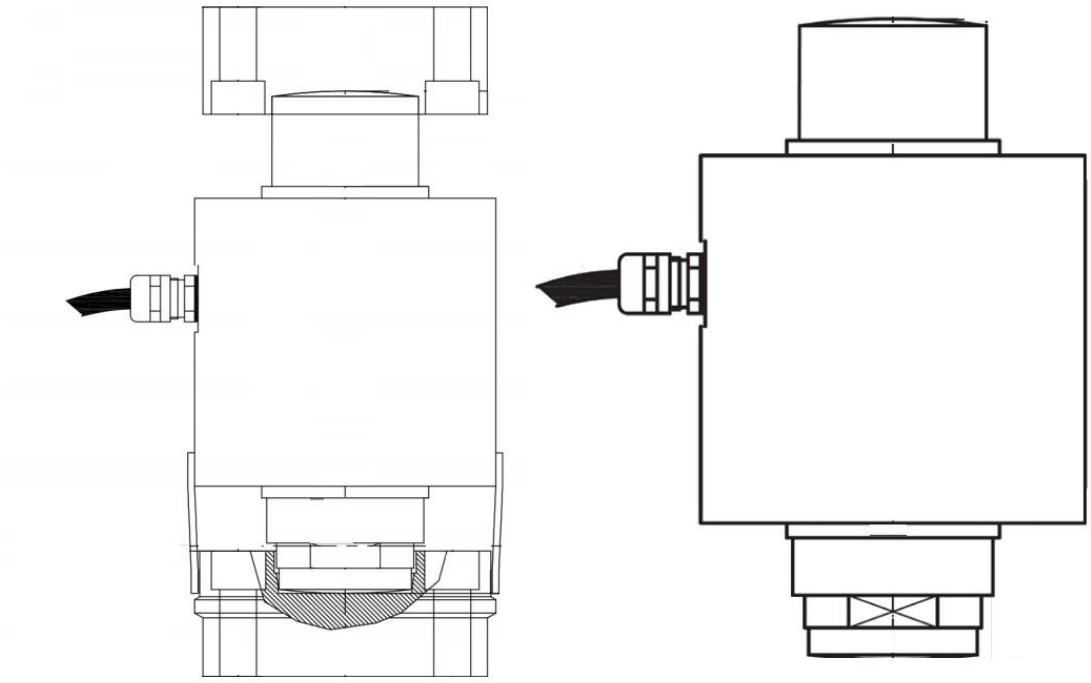
E_{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval

DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

FIGURE S739 – 1

Rice Lake Model RL5416 Load Cell

FIGURE S739– 2



Typical Mounting Arrangement

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