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

Supplementary Certificate of Approval

NMI S484

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.

AND Model LC4102-K030 Load Cell

submitted by A & D Australasia Pty Ltd
32 Dew Street
THEBARTON SA 5031

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 **1/01/17**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – interim certificate issued	14/12/06
1	Pattern & variant 1 approved – certificate issued	16/11/07
2	Pattern & variant 1 reviewed & updated – certificate issued	3/05/12

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number ‘NMI S484’ and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked ‘NMI S484’ in addition to the approval number of the instrument.

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.

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 S484

1. Description of Pattern approved on 14/12/06

An AND model LC4102-K030 load cell of 54 kg maximum capacity (Figure 1 and Table 1). May also be known as A & D Australasia load cells of the same model.

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	AND
Model number	……..
Maximum capacity, .Emax	Emax = …….. kg
Serial number	……
Pattern approval mark	NMI S484

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 14/12/06

Certain other models and with characteristics as listed in Table 1.

TABLE 1

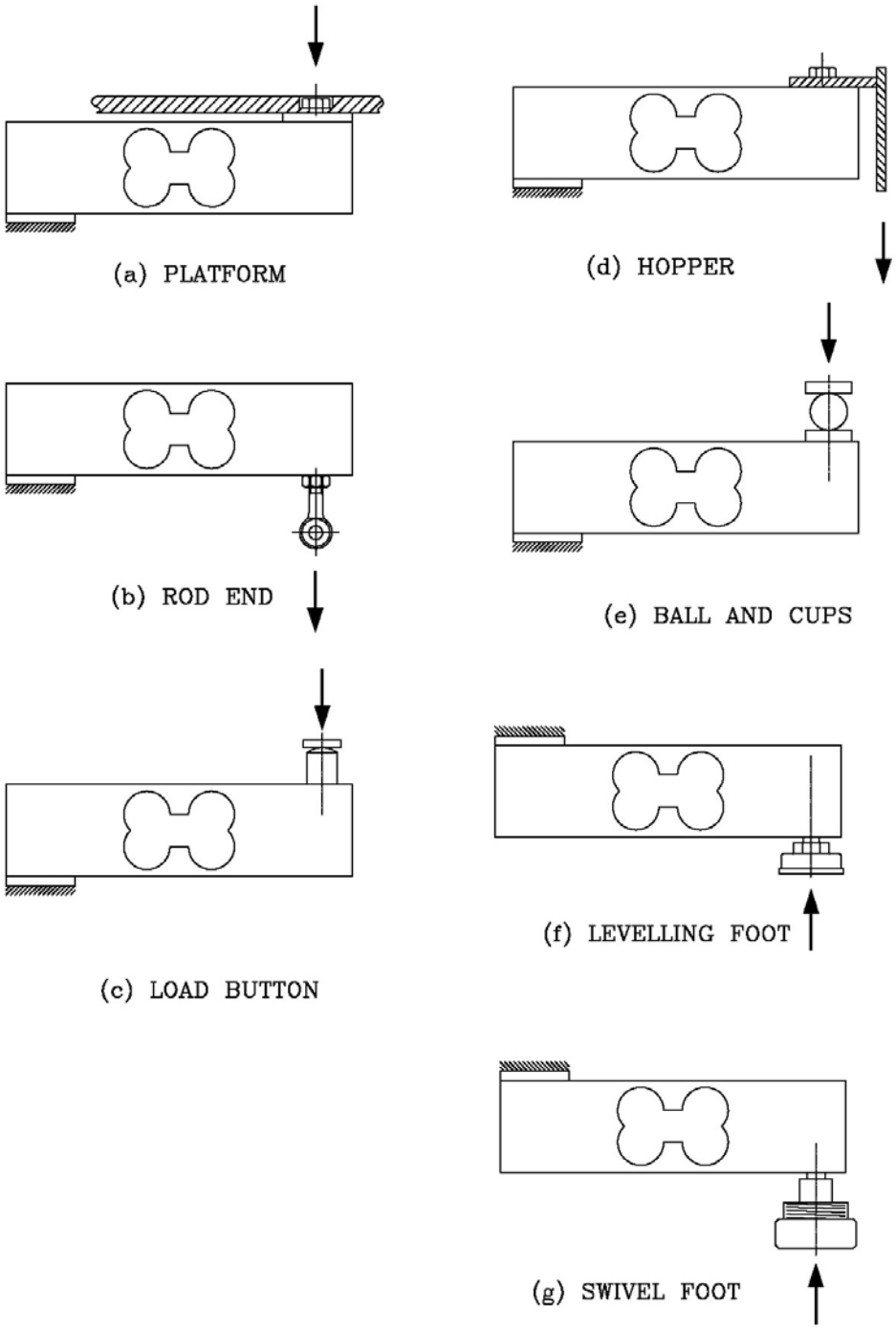
Model number:	LC4102-K030	LC4102-K060	LC4102-K150
Emax (kg)	54	108	270
Class	C1.5	C1.5	C1.5
nLC	1500	1500	1500
v_{min} (kg)	0.012	0.024	0.06
DR (kg)	0.017	0.034	0.085
mV/V	1.8	1.8	1.8
Input imp. (ohms)	400	400	400
Supply voltage (V DC)	15	15	15
Cable length (m)	1.5 or 3 m	1.5 or 3 m	1.5 or 3 m
Number of leads (plus shield)	4	4	4

Emax	=	Load cell 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)
Supply Voltage	=	Maximum supply voltage

FIGURE S484 – 1

An AND Model LC4102-K030 Load Cell

FIGURE S484 – 2



(Note: Refer to Figure 1 for correct cell profile)

Mounting Arrangements

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