Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval

NMI S751

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.

ZEMIC Model B8D-C3-200kg-6B Load Cell

submitted by Zhonghang Electronic Measuring Instruments Co. Ltd
166 West Avenue
Chang'an District
Xi'an City
Shaanxi Province 701006
China

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 1/11/22, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	13/10/17

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S751' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S751' 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*.

Darryl Hines

TECHNICAL SCHEDULE No S751

1. Description of Pattern approved on 13/10/17

A ZEMIC model B8D-C3-200kg-6B load cell of 200 kg maximum capacity (Figure 1a and Table 1a).

1.1 Method of Mounting

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

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	ZEMIC
Model number	..…...
Maximum capacity, E_{max}	..…... kg (or t)
Serial number	..…...
Pattern approval mark	NMI S751

1.3 Table of Specifications

Specifications for the pattern are given in Table 1a.

2. Description of Variant 1 approved on 13/10/17

Certain other models of the ZEMIC B8D series (Figure 1a and 1b) and with capacities and characteristics as listed in Tables 1a to 1c.

TABLE 1a

Type: ZEMIC B8D-C3-#-6B series as listed below, where # in the model number represents the capacity (*Emax)*, e.g. the pattern model B8D-C3-200kg-6B is of 200 kg capacity.

Model number	#=200kg	#=250kg	#=500kg	#=750kg
Emax (kg)	200	250	500	750
Class	C	C	C	C
nLC	3000	3000	3000	3000
Vmin (kg)	0.02	0.025	0.05	0.125
DR (kg)	0.02	0.025	0.05	0.125
mV/V	3	3	3	3
Input imp. ohms	350	350	350	350
Supply voltage (V)	18	18	18	18
Cable length (m)	6	6	6	6
Number of leads (plus shield)	4	4	4	4

TABLE 1b

Model number	#=1.0t	#=1.5t	#=2.0t	#=2.5t
Emax (kg)	1000	1500	2000	2500
Class	C	C	C	C
nLC	3000	3000	3000	3000
Vmin (kg)	0.167	0.25	0.33	0.42
DR (kg)	0.167	0.25	0.33	0.42
mV/V	3	3	3	3
Input imp. ohms	350	350	350	350
Supply voltage (V)	18	18	18	18
Cable length (m)	6	6	6	6
Number of leads (plus shield)	4	4	4	4

TABLE 1c

Model number	#=3.0t	#=5t	#=7.5t	#=10t
Emax (kg)	3000	5000	7500	10000
Class	C	C	C	C
nLC	3000	3000	3000	3000
Vmin (kg)	0.5	0.83	1.25	1.67
DR (kg)	0.5	0.83	1.25	1.67
mV/V	3	3	3	3
Input imp. ohms	350	350	350	350
Supply voltage (V)	18	18	18	18
Cable length (m)	6	6	6	6
Number of leads (plus shield)	4	4	4	4

Where:

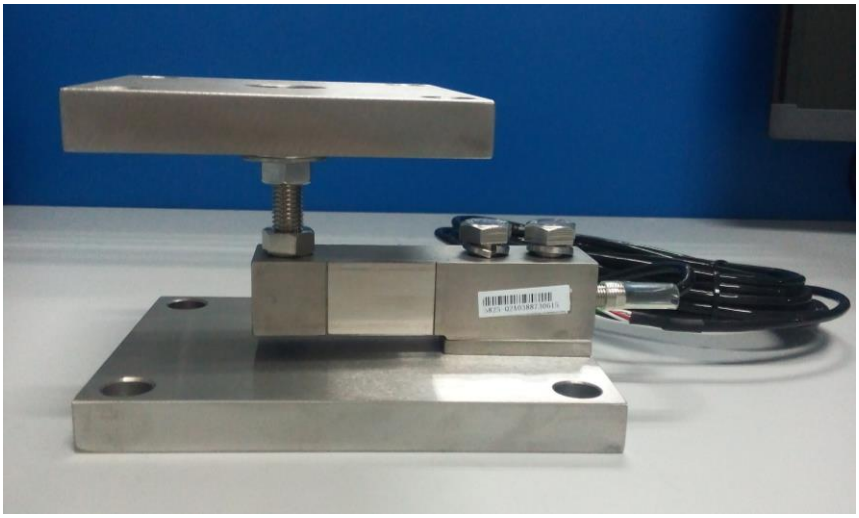
E_{max}	=	Maximum capacity
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (DC)

FIGURE S751 – 1

(a) ZEMIC Model B8D Series Load Cell Up to 250 kg Maximum Capacity

(b) ZEMIC Model B8D Series Load Cell Up to 10 t Maximum Capacity

FIGURE S751 – 2



A Typical Mounting Arrangement

~ End of Document ~