Australian Government
Department of Industry, Innovation and Science

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S698

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.

Mettler Toledo Model SLB415-1.1t Load Cell

submitted by Mettler Toledo Limited
Unit 3, 220 Turner St
Port Melbourne
VIC 3207.

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 1/05/23, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 & 2 – approved – certificate issued	20/04/18

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S698' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S698' 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
Manager
Pattern Approval, Policy and Licensing Section

TECHNICAL SCHEDULE No S698

1. Description of Pattern approved on 20/04/18

A Mettler Toledo model SLB415-1.1t load cell of 1100 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3000 verification scale intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 3.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Mettler Toledo
Model number	……..
Maximum capacity, E_{max}	..…... kg (or t)
Serial number	..…...
Pattern approval mark	NMI S698

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 20/04/18

Certain other capacities and characteristics of the Mettler Toledo SLB415 series as listed in Table 1.

Type: Mettler Toledo SLB415-#t series as listed below, where # in the model number represents the capacity (*Emax)* in tonnes, e.g. the pattern model SLB415-1.1t is of 1100 kg capacity.

2. Description of Variant 2 approved on 20/04/18

Certain capacities and characteristics of the Mettler Toledo SLB215 series as listed in Table 1.

Type: Mettler Toledo SLB215-#t series as listed below, where # in the model number represents the capacity (*Emax)* in tonnes, e.g. the pattern model SLB215-1.1t is of 1100 kg capacity.

A typical SLB215 series load cell is shown in Figure 2.

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 4.

Table 1

Model Number	#=0.11	#=0.22	#=0.5t	#=1.1	#=2.2	#=4.4
E_{max} (kg)	110	220	550	1100	2200	4400
E_{min} (kg)	0.4	0.4	0.4	0.4	0.4	0.4
Class	C	C	C	C	C	C
nLC	3000	3000	3000	3000	3000	3000
V_{min} (kg)	0.010	0.020	0.050	0.052	0.105	0.210
DR (kg)	0.018	0.037	0.092	0.183	0.367	0.733
mV/V	1 or 2					
Input imp (Ω)	382					
Voltage (V)	15					
Cable length (m)	3					
Number of leads (plus shield)	4					

Where:

E_{max}	=	Maximum capacity
E_{min}	=	Minimum dead load
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 S698 – 1

Mettler Toledo Model SLB415 Series Load Cell

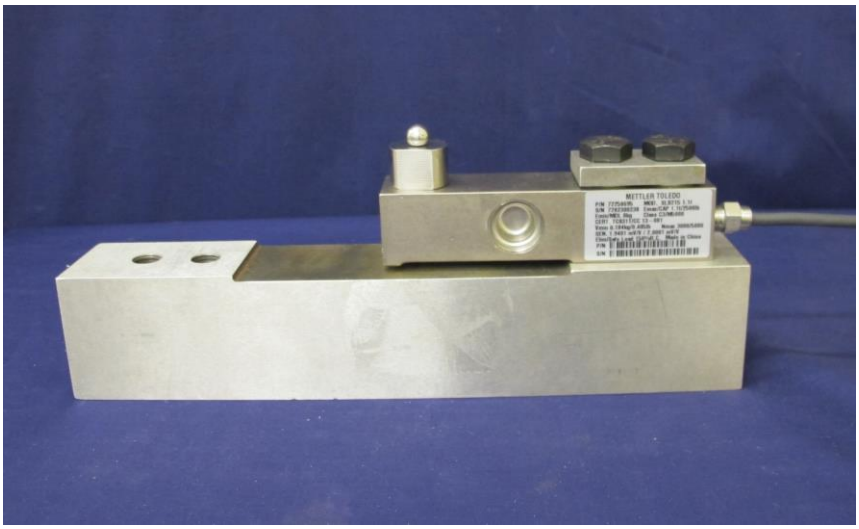
FIGURE S698 – 2

Mettler Toledo Model SLB215 Series Load Cell

FIGURE S698 – 3

Model SLB415 Series Load Cell Mounting Arrangements

FIGURE S698 – 4



Model SLB215 Series Load Cell Mounting Arrangements

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