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

Supplementary Certificate of Approval

NMI S697

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 SLB615D C10 Digital Load Cell

submitted by Mettler Toledo Limited
Unit 3, 220 Turner Street
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 1/08/20, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	16/07/15

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S697' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S697' 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 S697

1. Description of Pattern approved on 16/07/15

A Mettler Toledo model SLB615D C10 digital load cell of 220 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 10 000 verification scale intervals.

These load cells shall only be used with indicators which are NMI approved for use with compatible Mettler Toledo digital load cells.

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	Mettler Toledo Limited
Model number	SLB615D C10
Maximum capacity, E_{max}	…….. kg (or t)
Serial number	……..
Pattern approval mark	NMI S697

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 16/07/15

Certain other models and capacities of the Mettler Toledo SLB615D series, with differing characteristics as listed in Tables 1, 2 & 3.

Type: SLB615D C## series as listed below, where ## in the model number represents the load cell classification. The load cell capacity (*Emax)* is as indicated (and as included in the load cell markings).

TABLE 1

Model:	SLB615D C10			
Maximum capacity, E_{max} kg	220	550	1100	2200
Accuracy class - Classification	C	C	C	C
Maximum number of verification intervals	10 000	10 000	10 000	10 000
Minimum value of verification interval, v_{min} kg	0.01	0.025	0.05	0.1
Minimum dead load output return value (DR) kg	0.011	0.0275	0.055	0.11
Output rating (resolution) counts at E_{max} (k represents 1000)	220k	550k	1100k	2200k
Supply voltage (DC), V	7.5 - 28			
Cable length (±0.1 m), m	up to 300 m (*)			
Communication	CAN bus/4-wire			
Digital indicator	NMI-approved for use with compatible Mettler Toledo digital load cells			
Apportionment factor, PLC	0.8			

(*) See Figure 3 regarding cabling arrangement.

TABLE 2

Model:	SLB615D C6				
Maximum capacity, E_{max} kg	220	550	1100	2200	4400
Accuracy class - Classification	C	C	C	C	C
Maximum number of verification intervals	6000	6000	6000	6000	6000
Minimum value of verification interval, v_{min} kg	0.01	0.025	0.05	0.1	0.25
Minimum dead load output return value (DR) kg	0.0183	0.0458	0.0916	0.183	0.366
Output rating (resolution) counts at E_{max} (k represents 1000)	220k	550k	1100k	2200k	440k
Supply voltage (DC), V	7.5 - 28				
Cable length (±0.1 m), m	up to 300 m (*)				
Communication	CAN bus/4-wire				
Digital indicator	NMI-approved for use with compatible Mettler Toledo digital load cells				
Apportionment factor, PLC	0.8				

(*) See Figure 3 regarding cabling arrangement.

Type: SLB615D C## series as listed below, where ## in the model number represents the load cell classification. The load cell capacity (*Emax)* is as indicated (and as included in the load cell markings).

TABLE 3

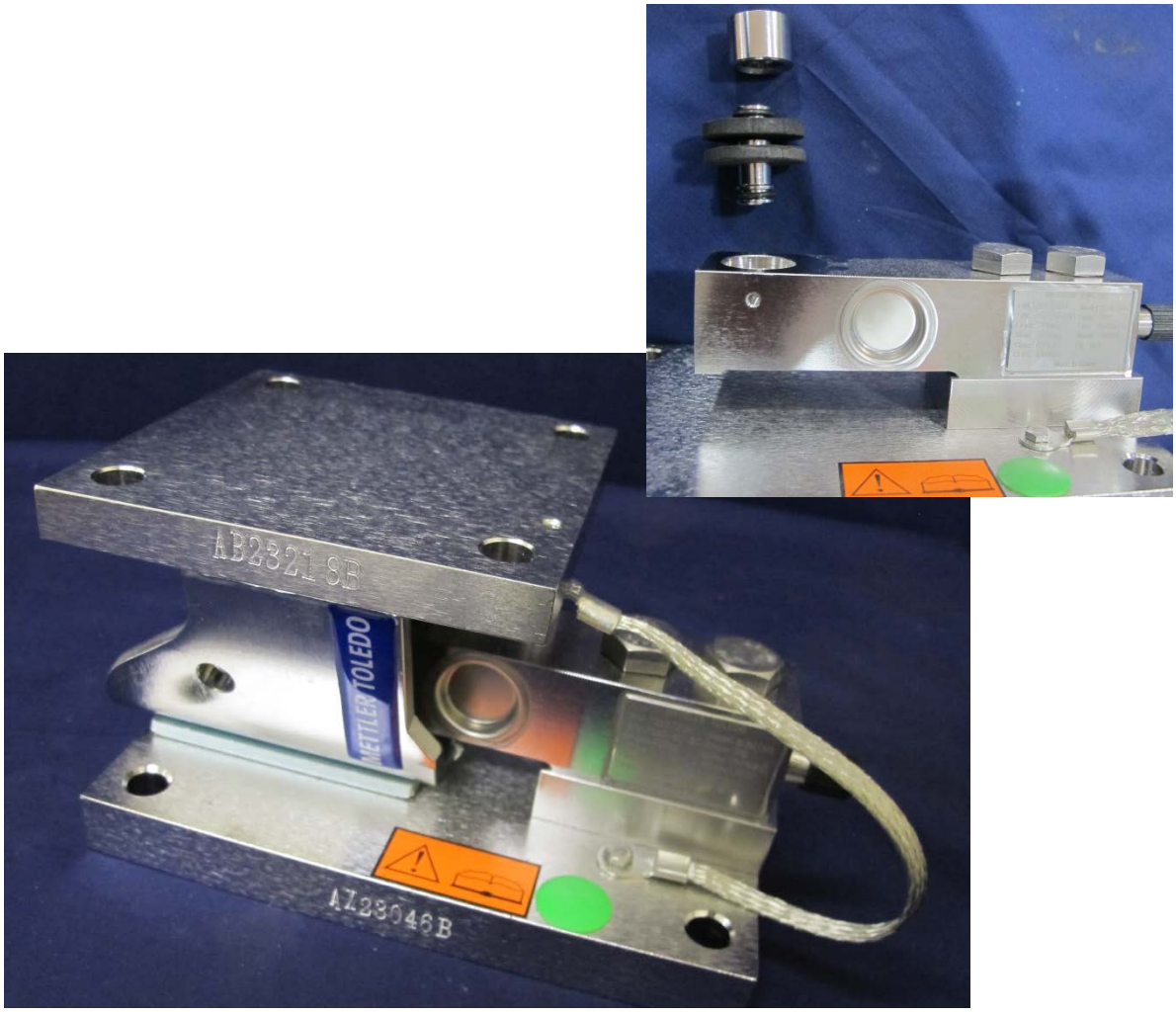
Model:	SLB615D C3				
Maximum capacity, E_{max} kg	220	550	1100	2200	4400
Accuracy class - Classification	C	C	C	C	C
Maximum number of verification intervals	3000	3000	3000	3000	3000
Minimum value of verification interval, v_{min} kg	0.025	0.05	0.1	0.25	0.5
Minimum dead load output return value (DR) kg	0.0366	0.0916	0.183	0.366	0.733
Output rating (resolution) counts at E_{max} (k represents 1000)	220k	550k	1100k	2200k	440k
Supply voltage (DC), V	7.5 - 28				
Cable length (±0.1 m), m	up to 300 m (*)				
Communication	CAN bus/4-wire				
Digital indicator	NMI-approved for use with compatible Mettler Toledo digital load cells				
Apportionment factor, PLC	0.8				

(*) See Figure 3 regarding cabling arrangement.

FIGURE S697 – 1

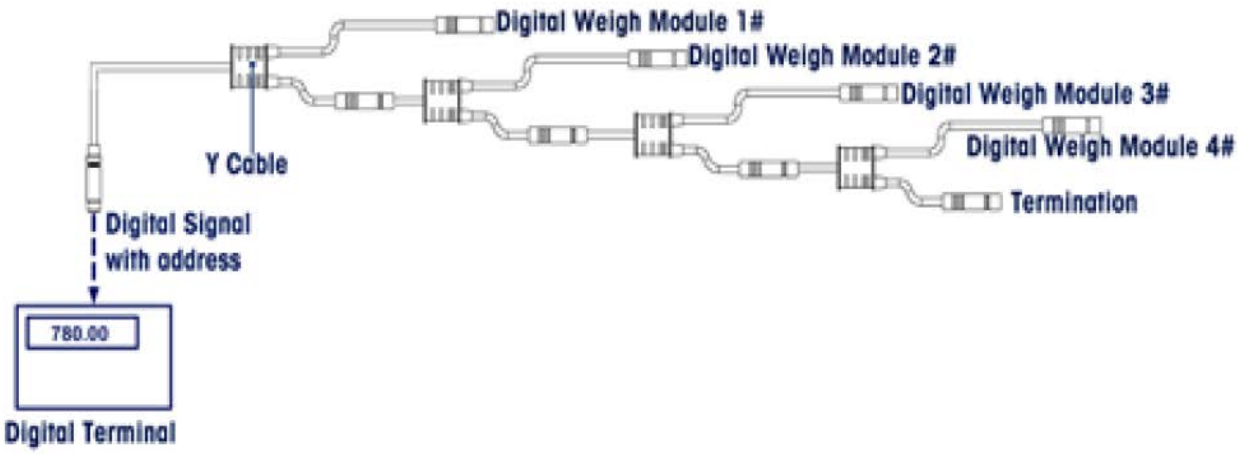
Mettler Toledo Model SLB615D Series Load Cell

FIGURE S697 – 2



Mounting Arrangement

FIGURE S697 – 3



Cabling Arrangement
(Digital Weigh Module represents a load cell)

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