

NATIONAL MEASUREMENT (PATTERNS OF INSTRUMENTS) REGULATIONS

REGULATION 9

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S143

This is to certify that an approval for use for trade has been granted in respect of the pattern of the

Toledo Model 0752 Part Number 118687 Load Cell Of 22.7 t Capacity

submitted by Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne Vic 3207.

Conditions of Approval

This approval is subject to review on or after 1/2/88.

Instruments incorporating a load cell purporting to comply with this approval shall be marked NSC No S143 in addition to the approval number of the instrument.

This approval may be withdrawn if load cells are constructed and used other than as described in the drawings and specifications lodged with the Commission.

The number of scale intervals applicable to the whole instrument shall be no greater than the number of verification scale intervals approved for the basework, or the load cell(s) or the headwork, whichever is the smallest.

The load cells to be used shall be subject to regular certification by the Commission.

Signed

Executive Director

Descriptive Advice

Pattern: approved 12/1/83

. Toledo model 0752 part number 118687 load cell of 22.7 t capacity.

Technical Schedule No 5143 describes the pattern.

Variant: approved 2/7/86

1. Model 0752 load cell of 45.4 t capacity.

Technical Schedule No S143 Variation No 1 describes variant 1.

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Filing Advice

Supplementary Certificate of Approval No 5143 dated 25/1/84 is superseded by this Certificate and may be destroyed. Table 1 included as part of Technical Schedule No 5143 dated 25/1/84 is replaced by the Table included herein.

The documentation for this approval now comprises:

Supplementary Certificate of Approval No 5143 dated 29/08/86 Technical Schedule No 5143 dated 25/1/84 Technical Schedule No 5143 Variation No 1 dated 29/08/86 (including Table 1) Figures 1 and 2 dated 28/1/83 (Figure 2 was originally Figure 3)

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TECHNICAL SCHEDULE No S143

Pattern: Toledo Model 0752 Part Number 118687 Load Cell Of 22.7 t Capacity

Submittor: Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne Victoria 3207

1. Description of Pattern

The pattern is a Toledo model 0752 part number 118687 load cell of 22.7 t capacity (see Figure 1 and Table 1) and is assembled in a Commission-approved basework.

1.1 Method of Mounting

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

1.2 Marking

The following is the minimum data required to be marked on the load cell:

Manufacturer's name or mark			
Part number	118687*		
Serial number	* * • • • • •		
Maximum rated capacity	• • • • • • •		
Approval number	NSC No S143		
TABLE 1			
Type: Toledo 0752 (118687)			
Maximum capacity	22.7 t		
Maximum number of verification			
scale intervals	3000		
Minimum dead load	1.14 t		
Minimum value of verification			
scale interval	1.7 kg		
Input impedance (nominal)	825 Ω		
Supply voltage (AC or DC)	10 or 15 V		
Output rating (nominal)	2 mV/V		
Cable length	various lengths to		
	suit application		
Number of leads	6 1		

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There is also a shield cable.

*Only the first six digits are significant for identification. Additional digits, typically "OOA", may appear.

#The requirement to mark the NSC approval number on the load cell will be effective on these cells as 6° 31/5/84 to allow the use of nameplates already in stock.



TECHNICAL SCHEDULE No S143

VARIATION No 1

Pattern: Toledo Model 0752 Part Number 118687 Load Cell Of 22,7 t Capacity

Submittor: Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne Vic 3207

1. Description of Variant 1

A Toledo model 0752 load cell of 45.4 t capacity.

1.1 Method of Mounting

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

1.2 Marking

The following is the minimum data required to be marked on the load cell:

Manufacturer's name or mark	
Model number	
Serial number	
Maximum rated capacity	• • • • • • • • • • • • • •
Approval number	NSC No S143

TABLE 1

Type: Toledo		0752 (118687)		0752
Maximum capacity		22.7 t		45.4 t
Maximum number of verification	(a)	3000	(a)	2000
scale intervals	(b)	3000	(Ь)	2000
Minimum value of verification	(a)	1.7 kg	(a)	6.8 kg
scale interval	(b)	2.4 kg	(Ь)	10 kg
Input impedance (nominal)		825		825
Supply voltage (AC or DC)		10 or 15 V		10 or 15 V
Output rating (nominal)		2 mV/V		2 mV/V
Cable length		Various lengths to suit application		
Number of leads (plus shield)		6		6

(a) Instruments with automatic zero track - multi cell applications.

(b) Instruments without automatic zero track - multi cell applications.



NOTIFICATION OF CHANGE

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S143

CHANGE No 1

The following change is made to the description of the Toledo Part Number 118687 Load Cell given in Technical Schedule No S143 dated 28/1/83;

In Table 1, change the value of the Minimum Dead Load to 1.4 t.

Signed

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Executive Director



NOTIFICATION OF CHANGE

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S143

CHANGE No 2

The following change is made to the approval documentation for the

Toledo Part Number 118687 (Model 0752) Load Cell

submitted by Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne Victoria 3207.

Certificate of Approval No S143 dated 28/1/83, its Technical Schedule and Figure 2 are replaced by the attached documentation (in which paragraph <u>1.2</u> Marking and Table 1 of the Technical Schedule have been amended) and may be destroyed.

Figures 1 and 3 dated 28/1/83 should be retained (Figure 3 should be renumbered Figure 2).

Note: Refer to the Filing Advice in the attached Certificate.

Signed

Executive Director



S143 1/12/86

NOTIFICATION OF CHANGE

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S143

CHANGE No 3

The following changes are made to the approval documentation for the

Toledo Model 0752 Part Number 118687 Load Cell Of 22.7 t Capacity

submitted by Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne Victoria 3207.

- Table 1 included as part of Technical Schedule No S143 Variation No 1 dated 29/8/86, is replaced by the Table attached herein.
- In Supplementary Certificate of Approval No S143 Variation No 1 dated 29/8/86, amend the <u>Filing Advice</u> to read, in part;

"Table 1 included as part of Technical Schedule No S143 Variation No 1 is replaced by the Table included with Notification of Change No 3 dated 1/12/86."

Signed

Birch

Executive Director

24/12/92

National Standards Commission



NOTIFICATION OF CHANGE

VARIOUS CERTIFICATES OF APPROVAL

The following changes are made to the approval documentation for various approvals

submitted by Toledo Scale (Australia) Ltd 525 Graham Street Port Melbourne VIC 3207.

In the Certificates and Technical Schedules listed overleaf, the following changes should be made: (Note: Only current approvals are listed.)

1. The submittor should be changed to read;

Mettler Toledo Limited

(the address remains unchanged)

- 2. All references to 'Toledo' instruments or components should be amended to read 'Toledo (or Mettler or Mettler Toledo)'.
- NOTE: Any 'Toledo' instrument or component described in the approval documentation may now also be known as 'Mettler or Mettler Toledo'.

24/12/92

Page 2 Notification of Change PATTERN APPROVAL NUMBER 8214 Weighing Instrument 6/4C/65 8215 Weighing Instrument 6/4C/68 6/4D/242 8421 Weighing Instrument 6/9C/2A 2191 Weighing Instrument 2503 Weighing Instrument 6/9C/24A 2020 Weighing Instrument 6/9C/28 2985 Weighing Instrument 6/9C/24A 44A 6/9C/76 2295 Weighing Instrument 2375 Weighing Instrument 6/9C/87 2155 Weighing Instrument 6/9C/97 9118 Weighing Instrument 6/9C/98 6303 Weighing Instrument 6/9C/206 6/9C/231 **1938 Weighing Instrument** 7560 Weighing Instrument 6/10B/46A 2352 Hopper Weighing Instrument 6/14B/9A 6/18/21 2299 Overhead Weighing Instrument 8530 Digital Indicator S253 8520 Digital Indicator S266 8510 Digital Indicator S283 0721 Load Cell S111A S112A 0723 Load Cell 0752 Load Cell S143 0725 Load Cell S172 0742 Load Cell S211 0760 Load Cell S252 0752 Load Cell S264 **RLC 5000 Load Cell** S268

> Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

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FIGURE S143 - 1



Toledo Part Number 118687 Load Cell



28/1/83



Schematic Of Typical Load Cell Mounting