



Australian Government

**National Measurement
Institute**

Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

No S521

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

Mettler Toledo Model SBS-0.25 Load Cell

submitted by Mettler Toledo Limited
 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.

CONDITIONS OF APPROVAL

This approval becomes subject to review on 1 July 2014, and then every 5 years thereafter.

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S521' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S521' in addition to the approval number of the instrument.

It is the submitter'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 National Measurement Institute reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

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.

DESCRIPTIVE ADVICE

Pattern: approved 9 June 2009

- A Mettler Toledo model SBS-0.25 load cell of 250 kg maximum capacity.

Variant: approved 9 June 2009

1. Certain other models and capacities of the SBS series as listed in Table 1.

Technical Schedule No S521 describes the pattern and variant 1.

FILING ADVICE

The documentation for this approval comprises:

Supplementary Certificate of Approval No S521 dated 10 June 2009
Technical Schedule No S521 dated 10 June 2009 (incl. Table 1)
Figures 1 and 2 dated 10 June 2009

Signed by a person authorised by the Chief Metrologist to exercise his powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, consisting of a series of loops and flourishes, positioned to the right of the signature text.

TECHNICAL SCHEDULE No S521

Pattern: Mettler Toledo Model SBS-0.25 Load Cell

Submittor: Mettler Toledo Limited
220 Turner Street
Port Melbourne VIC 3207

1. Description of Pattern

A Mettler Toledo model SBS-0.25 load cell of 250 kg maximum capacity (Figure 1 and Table 1).

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
Model number
Maximum capacity kg (or t)
Serial number
Pattern approval mark	S521

1.3 Tables of Specifications

Specifications for the pattern are given below and in Table 1.

2. Description of Variant 1

Certain other models of the SBS series (Figure 1) with characteristics and specifications as listed below in Table 1.

TABLE 1

Mettler Toledo SBS series load cells of Class C as listed below.

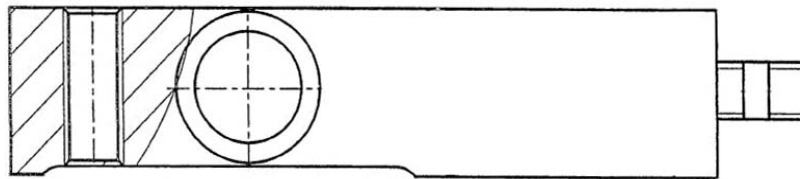
In all cases:	
Output rating (nominal)	2 mV/V
Input impedance (nominal)	382 ohms
Maximum supply voltage	20 V max AC/DC (5V to 15V recommended)

Model	E_{max} (kg)	Class	nLC	V_{min} (kg)	Cable length (m)	Number of leads (plus shield)
SBS-0.25	250	C	3000	0.041	4	4
SBS-0.3	300	C	3000	0.05	4	6
SBS-0.5	500	C	3000	0.083	4	6
SBS-1	1000	C	3000	0.166	4	6
SBS-2	2000	C	3000	0.333	4	6
SBS-3	3000	C	3000	0.5	4	6

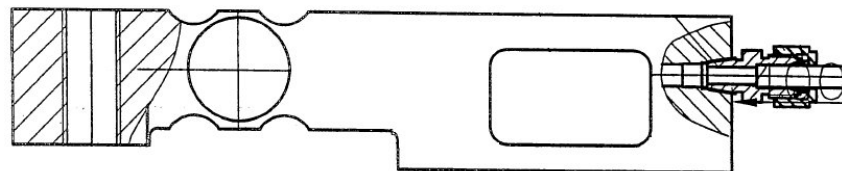
Where:

- E_{max} = Maximum capacity
- nLC = Maximum number of verification intervals
- V_{min} = Minimum value of verification interval

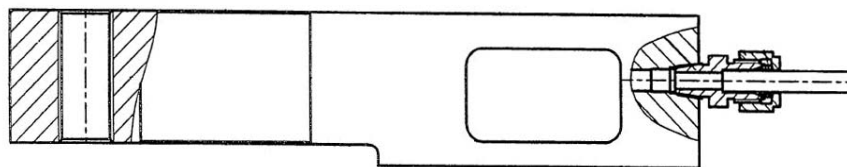
FIGURE S521 – 1



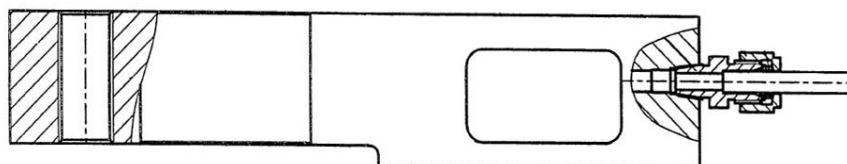
(a) Mettler Toledo Model SBS-0.25 Load Cell



(b) Mettler Toledo Model SBS-0.3 Load Cell



(c) Mettler Toledo Model SBS-0.5 Load Cell



(d) Mettler Toledo Models SBS-1 – SBS-3 Load Cells

FIGURE S521 – 2



Typical Swivel-foot Mounting