



Australian Government

Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S862

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.

Thames Side Sensors Model T34 Load Cell

submitted by Thames Side Sensors Ltd
Unit 10, io Trade Centre, Deacon Way
Reading Berkshire RG30 6AZ
England United Kingdom

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 is subject to review at the decision of the Chief Metrologist in accordance with the conditions specified in the document NMI P 106.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variant 1 approved – certificate issued	30/10/24

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S862' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S862' in addition to the approval number of the instrument, and only by persons authorised by the submitter.

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 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.



James Cantrill
(A/g) Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S862

1. Description of Pattern

approved on 30/10/24

Thames Side Sensors model T34 stainless steel compression load cell with an anti-rotation pin of 40 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 4 000 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	Thames Side Sensors Ltd
Model number
Maximum capacity	E_{max} kg (or t)
Serial number
Pattern approval mark	NMI S862

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

Table 1

Model Number	T34, T34X					
E_{max} (kg)	15 000	20 000	30 000	40 000	50 000	60 000
E_{min} (kg)	0					
Class	C					
nLC	4 000					
V_{min} (kg)	1.5	2	3	4	5	6
DR (kg)	0.625	0.833	1.250	1.667	2.083	2.500
mV/V	2					
Input imp (Ω)	800					
Voltage (V)	15					
Cable length (m) *	19.6					
Number of leads (plus shield)	6					

*Load cell cable shall not be altered after manufactured.

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)

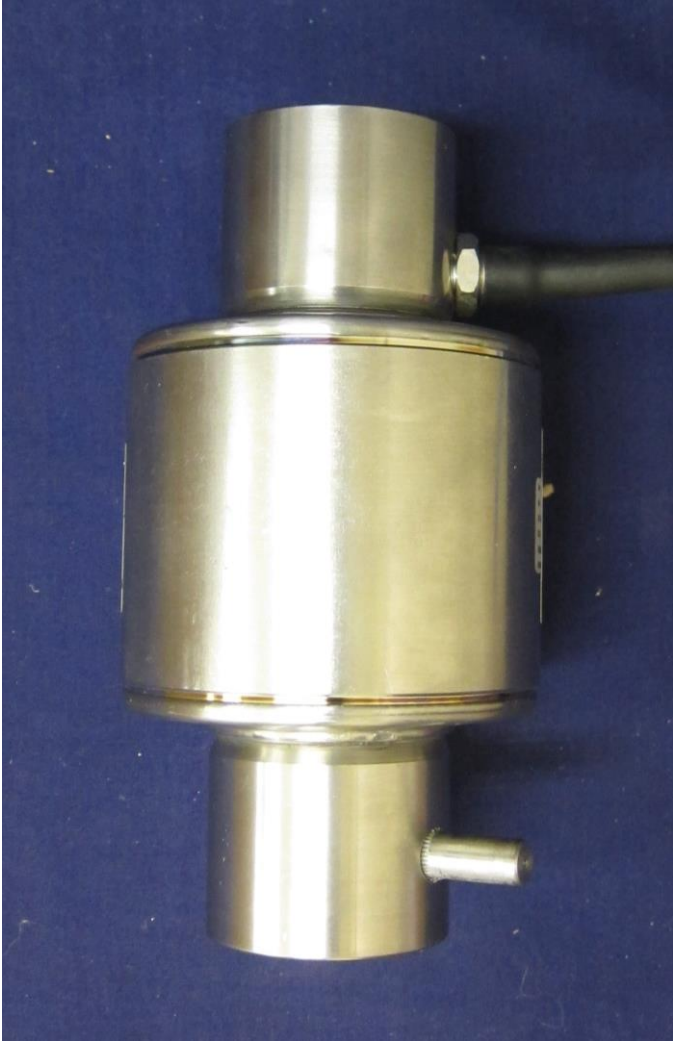
2. Description of Variant 1 **approved on 30/10/24**

The model T34X which has the same specifications as the pattern (Table 1) but has anti-rotation planes (Figure 2).

2.1 Method of Mounting

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

FIGURE S862 – 1



Thames Side Sensors Model T34 Load Cell with Anti-rotation Pin

FIGURE S862 – 2



Thames Side Sensors model T34X Load Cell with Anti-rotation Planes

FIGURE S862 – 3



Typical Mounting Arrangement for T34 Load Cell

FIGURE S862 – 4



Typical Mounting Arrangement for T34X Load Cell

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