



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Supplementary Certificate of Approval NMI S546

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.

Revere Model 9363-250kg-C3 Load Cell

submitted by Thermo Gamma-Metrics Pty Ltd
 T/A Thermo Fisher Scientific
 18 Butler Blvd
 Burbridge Business Park SA 5950

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 **1/05/21**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern & variant 1 approved – certificate issued	6/04/11
1	Pattern & variant 1 amended (additional capacity) & updated – certificate issued	21/02/14
2	Pattern & variant 1 reviewed – variant 1 amended (additional capacity) – certificate issued	24/03/16

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI S546' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S546' in addition to the approval number of the instrument.

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*.



Mario Zamora

TECHNICAL SCHEDULE No S546

1. Description of Pattern

approved on 6/04/11

A Revere model 9363-250kg-C3 S-type load cell of 250 kg maximum capacity (Figure 1 and Table 1).

1.1 Method of Mounting

The load cell may be used in tension. Mounting is to be in accordance with the manufacturer's instructions and as shown in Figure 1b.

1.2 Markings

Each load cell is marked with the following:

Manufacturer's mark, or name written in full	Vishay/Revere Transducers
Model number
Maximum capacity, E_{max} kg (or t)
Serial number
Pattern approval mark	NMI S546

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1

**approved on 6/04/11
amended on 24/03/16**

Revere 9363 series load cells of other models and with characteristics as listed in Table 1.

TABLE 1

Type: Revere Transducers 9363-#-C3 series as listed below, where # in the model number represents the capacity (E_{max}) in the form shown below, e.g. the **pattern** model 9363-250kg-C3 is of 250 kg maximum capacity.

Model Number	#=100kg	#=250kg	#=500kg	#=1000kg	#=2500kg	#=5000kg
E_{max} (kg)	100	250	500	1000	2500	5000
Class	C	C	C	C	C	C
nLC	3000	3000	3000	3000	3000	3000
V_{min} (kg)	0.011	0.028	0.056	0.111	0.277	0.550
DR (kg)	0.017	0.042	0.083	0.167	0.417	0.833
mV/V	3					
Input imp (Ω)	390					
Voltage (V)	15					
Cable length (m)	6					
Number of leads (plus shield)	4					

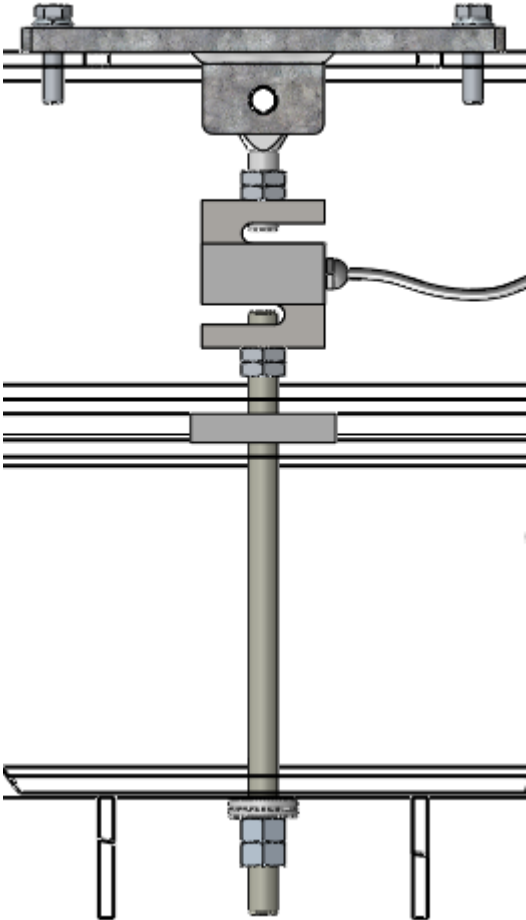
Where:

E_{max}	=	Maximum capacity
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 (DC)

FIGURE S546 – 1



(a) Revere Transducers Model 9363 S-type Load Cell



(b) Typical Tension Mounting Arrangement