



Australian Government

Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S853

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.

Marques Electronic Technology Model MC-CT Load Cell

submitted by Anmar Scales Pty Ltd
 189 Northcorp Blvd
 Broadmeadows VIC 3047

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	21/06/24

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S853' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S853' 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*.



Darryl Hines
Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S853

1. Description of Pattern **approved on 21/06/24**

A Marques Electronic Technology model MC-CT alloy steel body with stainless steel casing compression load cell of 30 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3500 verification scale intervals.

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	Marques
Model number	MC-CT
Maximum capacity, E_{max} kg (or t)
Serial number
Pattern approval mark	NMI S853

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 21/06/24**

Certain other capacities and characteristics of the Marques Electronic Technology model MC-CT series as listed in Table 1.

TABLE 1

Model Number	MC-CT	
E_{max} (kg)	20 000	30 000
E_{min} (kg)	0	0
Class	C	C
nLC	3500	3500
V_{min} (kg)	1.25	1.875
DR (kg)	2.632	3.947
mV/V	2	2
Input imp (Ω)	700	700
Voltage (V)	15	15
Cable length (m)	15	15
Number of leads (plus shield)	4	4

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)

FIGURE S853 – 1

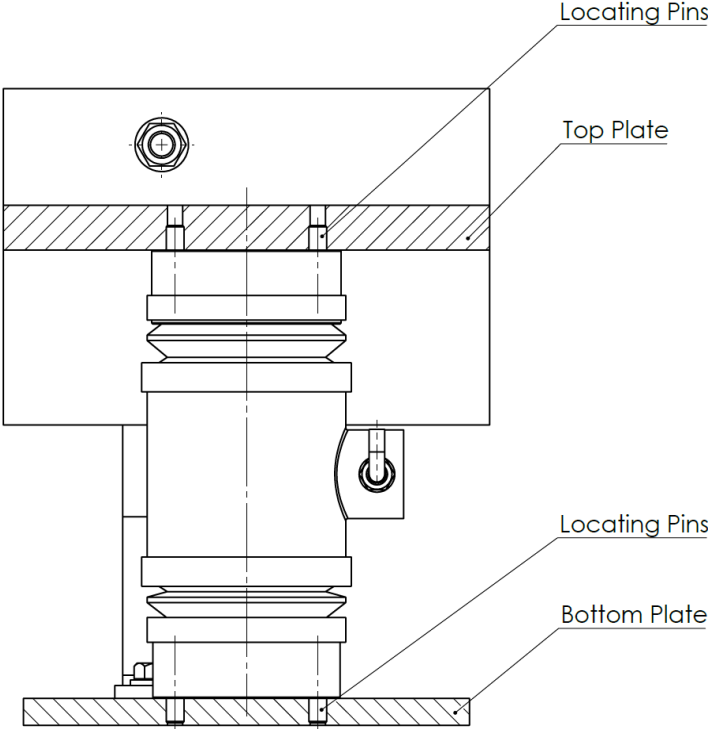
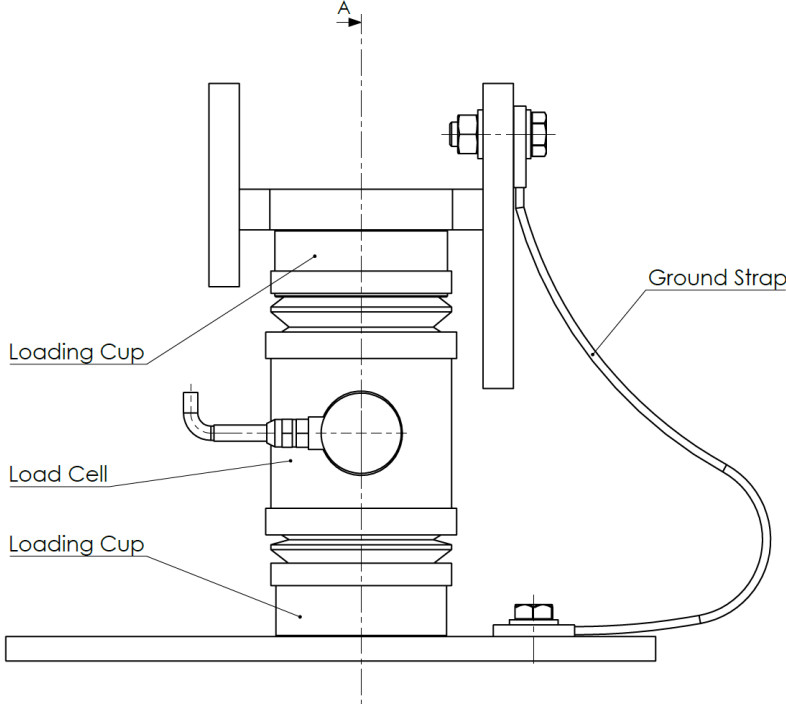


Marques Electronic Technology Model MC-CT Load Cell
With Rubber Bellows Fitted



Marques Electronic Technology Model MC-CT Load Cell
(Note: Use without the rubber bellows is acceptable)

FIGURE S853 – 2



Typical Mounting Arrangement

~ End of Document ~