Australian Government
Department of Industry, Science, Energy and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S803

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.

Huzhou Liheng Electronic Technology Model LHX-1 Load Cell

submitted by Australasia Scales Pty Ltd
Trading as Sensortronic Weighing and Inspection Australasia
Unit 1, 944 Nudgee Road
Banyo QLD 4014

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	12/02/21

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number ‘NMI S803’ and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked ‘NMI S803’ in addition to the approval number of the instrument, and only by persons authorised by the submittor.

It is the submittor’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 S803

1. Description of Pattern approved on 12/02/21

A Huzhou Liheng Electronic Technology model LHX-1 alloy steel shear beam load cell of 1000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 3000 verification scale intervals.

Any load cell of this approval may also be known as Sensortronic Weighing and Inspection Australasia (SWIA) load cell of the same model, in which case the manufacturer's mark required in the markings may be the SWIA or Sensortronic mark rather than Huzhou Liheng Electronic Technology.

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 either of the following:

Manufacturer's mark, or name written in full	Huzhou Liheng Electronic Technology or (SWIA or Sensortronic)
Model number	……
Maximum capacity, E_{max}	…... kg (or t)
Serial number	……
Pattern approval mark	NMI S803

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 approved on 12/02/21

Certain other capacities and characteristics of the Huzhou Liheng Electronic Technology LHX-1 series as listed in Table 1.

TABLE 1

Model Number	LHX-1	LHX-1	LHX-1	LHX-1
E_{max} (kg)	500	1000	2000	2500
E_{min} (kg)	0	0	0	0
Class	C	C	C	C
nLC	3000	3000	3000	3000
V_{min} (kg)	0.05	0.1	0.2	0.25
DR (kg)	0.083	0.167	0.333	0.417
mV/V	2	2	2	2
Input imp (Ω)	380	380	380	380
Voltage (V)	10	10	10	10
Cable length (m)	6	6	6	6
Number of leads (plus shield)	4	4	4	4

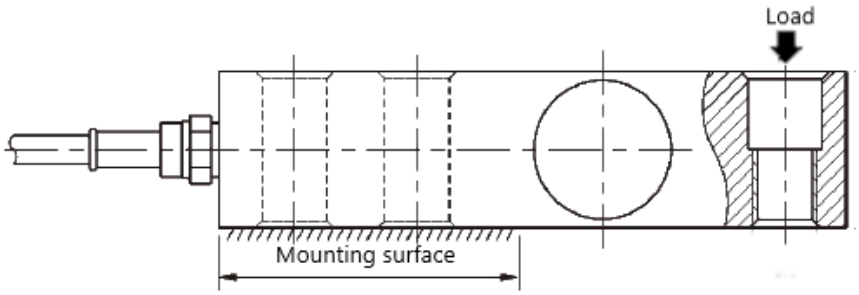
Where:

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 S803 – 1

Huzhou Liheng Electronic Technology Model LHX-1 Load Cell

FIGURE S802 – 2



Typical Mounting Arrangement

~ End of Document ~