Australian Government
Department of Industry, Science and Resources

National Measurement Institute

36 Bradfield Road, West Lindfield NSW 2070

Supplementary Certificate of Approval

NMI S840

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.

Dini Argeo Model STU8000-1KD Load Cell

submitted by Dini Argeo S.r.l.
Via della Fisica 20
41042 Spezzano di Fiorano
Modena
Italy

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 variants 1 to 2 approved – certificate issued	30/03/23
1	Tables 1 to 2 amended (corrections) – certificate issued	03/11/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S840' and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S840' 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*.

Phillip Mitchell
A/g Manager
Policy and Regulatory Services

TECHNICAL SCHEDULE No S840

1. Description of Pattern **approved on 30/03/23**

A Dini Argeo model STU8000-1KD stainless steel S-type load cell of 8000 kg maximum capacity (Figure 1 and Tables 1 to 2) and approved for use with up to 4000 verification scale intervals.

1.1 Method of Mounting

Mounting is to be in accordance with the manufacturer's instructions and as shown in Figures 2 and 3.

1.2 Markings

Each load cell is marked with either of the following:

Manufacturer's mark, or name written in full	Dini Argeo S.r.l.
Model number	……
Maximum capacity, E_{max}	…... kg (or t)
Serial number	……
Pattern approval mark	NMI S840

1.3 Table of Specifications

Specifications for the pattern are given in Table 1.

2. Description of Variant 1 **approved on 30/03/23**
amended on 03/11/23

Certain other capacities and characteristics of the Dini Argeo model STU series as listed in Tables 1 to 2.

TABLE 1

(Tension Load Transmission)

Model Number	STU2500-1KL	STU5000-1KL	STU8000-1KL	STU10000-1KL
E_{max} (kg)	2500	5000	8000	10000
E_{min} (kg)	0	0	0	0
Class	C	C	C	C
nLC	4000	4000	4000	4000
V_{min} (kg)	0.263	0.526	0.842	1.053
DR (kg)	0.114	0.227	0.364	0.455
mV/V	2.4	2.4	2.4	2.4
Input imp. (Ω)	1000	1000	1000	1000
Voltage (V)	15	15	15	15
Cable length (m)	3	3	3	3
Number of leads (plus shield)	6	6	6	6

TABLE 2

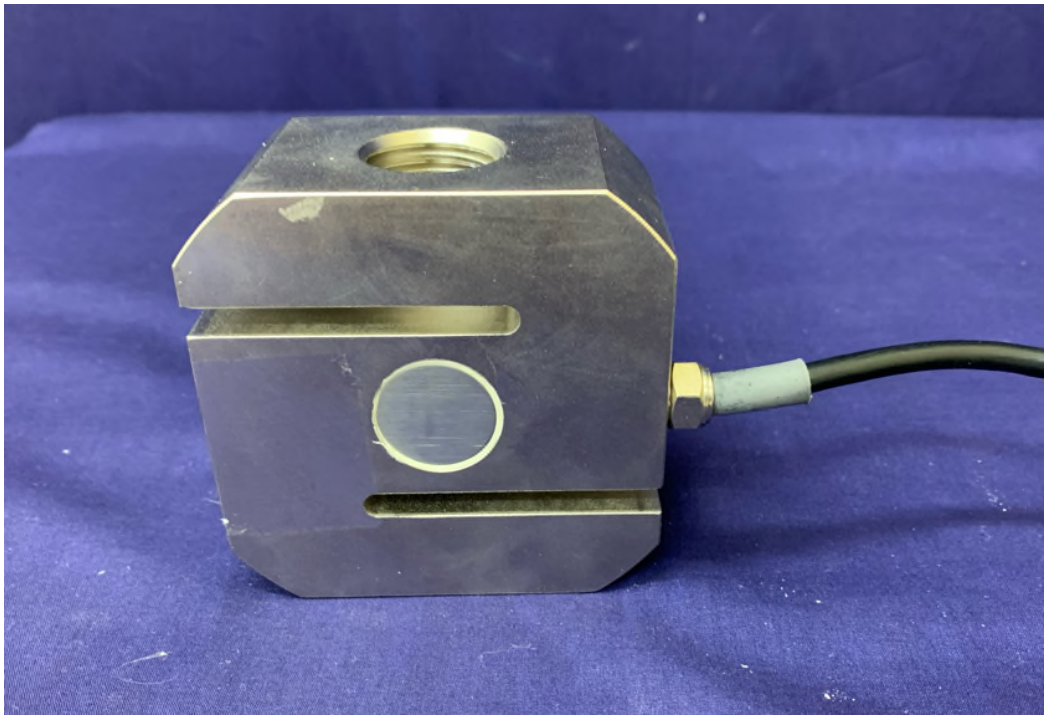
(Compression Load Transmission)

Model Number	STU2000-1KD	STU5000-1KD	STU8000-1KD	STU10000-1KD
E_{max} (kg)	2000	5000	8000	10000
E_{min} (kg)	0	0	0	0
Class	C	C	C	C
nLC	4000	4000	4000	4000
V_{min} (kg)	0.167	0.417	0.667	0833
DR (kg)	0.100	0.250	0.400	0.500
mV/V	2.4	2.4	2.4	2.4
Input imp. (Ω)	1000	1000	1000	1000
Voltage (V)	15	15	15	15
Cable length (m)	3	3	3	3
Number of leads (plus shield)	6	6	6	6

Where:

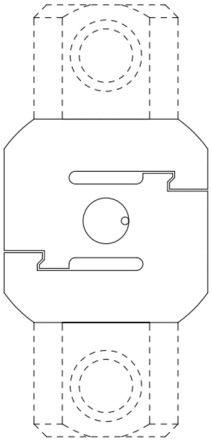
E_{max}	=	Maximum capacity
E_{min}	=	Minimum dead load
nLC	=	Maximum number of verification intervals
V_{min}	=	Minimum value of verification interval
DR	=	Minimum dead load output return value
mV/V	=	Output rating (nominal)
Input imp.	=	Input impedance (nominal)
Voltage	=	Maximum supply voltage (AC/DC)

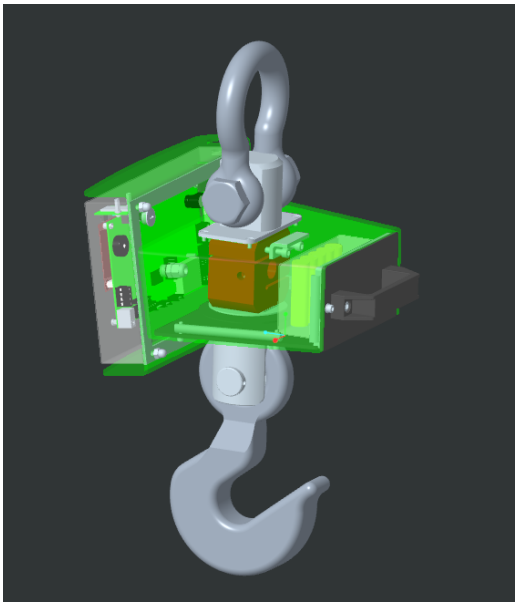
FIGURE S840 – 1



Dini Argeo Model STU Load Cell

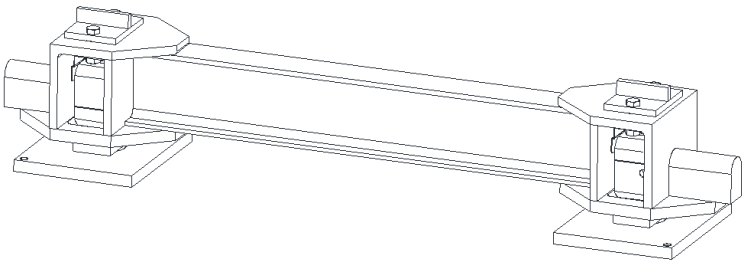
FIGURE S840 – 2

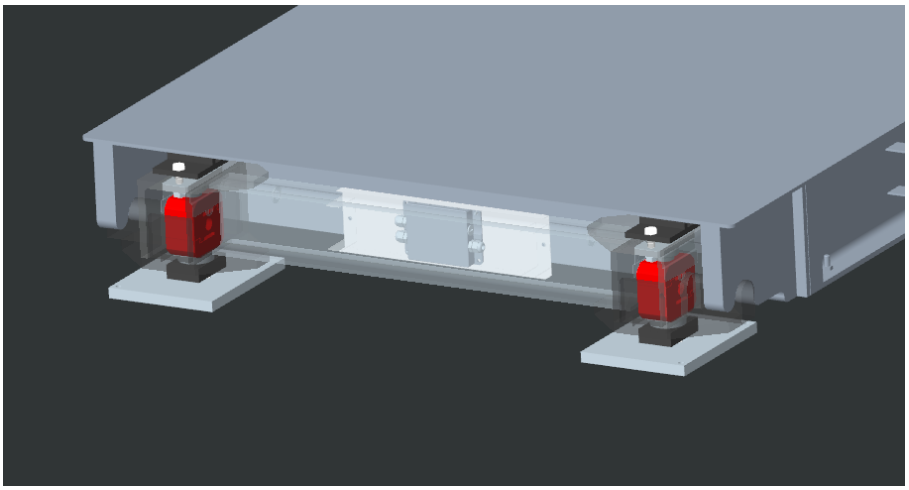




Typical Tension Mounting Arrangement

FIGURE S840 – 3





Typical Compression Mounting Arrangement

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