



Australian Government

Department of Industry,  
Science and Resources

**National  
Measurement  
Institute**

36 Bradfield Road, West Lindfield NSW 2070

## Supplementary Certificate of Approval

### NMI S842

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 RCD 30t C4 10e AR Digital 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 variant 1 approved – certificate issued | 30/03/23 |
|     |   |          |

## CONDITIONS OF APPROVAL

### General

Instruments purporting to comply with this approval shall be marked with approval number 'NMI S842' and only by persons authorised by the submitter.

Instruments incorporating a component purporting to comply with this approval shall be marked 'NMI S842' 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 S842

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

A Dini Argeo model RCD 30t C4 10e AR stainless steel compression digital load cell of 30 000 kg maximum capacity (Figure 1 and Table 1) and approved for use with up to 4000 verification scale intervals.

These load cells shall only be used with indicators which are NMI-approved for use with compatible Dini Argeo digital load cells.

**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 | Dini Argeo S.r.l. |
| Model number                                 | .....             |
| Maximum capacity, $E_{max}$                  | ..... kg (or t)   |
| Serial number                                | .....             |
| Pattern approval mark                        | NMI S842          |
| Software version number                      | .....             |

**1.3 Table of Specifications**

Specifications for the pattern are given in Table 1.

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

Certain other capacities and characteristics of the Dini Argeo model RCD series as listed in Table 1.

TABLE 1

| Model Number   | RCD 30t C4<br>10e AR                         | RCD 40t C4<br>10e AR | RCD 50t C4<br>10e AR |
|--|--|----------------------|----------------------|
| Maximum capacity, $E_{max}$ (kg)                       | 30 000                                       | 40 000               | 50 000               |
| Minimum dead load, $E_{min}$ (kg)                      | 0  | 0                    | 0                    |
| Accuracy class - Classification                        | C  | C                    | C                    |
| Maximum number of verification intervals, nLC          | 4000   | 4000                 | 4000                 |
| Minimum value of verification interval, $v_{min}$ (kg) | 3  | 4                    | 5                    |
| Minimum dead load output return value, DR (kg)         | 3.75   | 5                    | 6.25                 |
| Output rating (resolution)                             | 100 000 counts at $E_{max}$                  |                      |                      |
| Supply voltage (DC), (V)                               | 6 - 16                                       |                      |                      |
| Cable length   | up to 15 m (*)                               |                      |                      |
| Communication  | RS485  |                      |                      |
| Apportionment factor, $p_{LC}$                         | 0.8  |                      |                      |
| Software version number                                | Version number: V2.4 (***)                   |                      |                      |
| Junction box   | Dini Argeo model JB10QD-1                    |                      |                      |
| Digital indicator                                      | Dini Argeo model 3590 series indicators (**) |                      |                      |

- (\*) The RCD series load cells are connected to a junction box and then to the indicator. The load cell cables may be up to 15 metres in length. The connecting cable to the indicator may be up to 100 metres in length.
- (\*\*) Or alternative NMI-approved for use with compatible Dini Argeo model RCD digital load cells.
- (\*\*\*) The software version number is marked on the nameplate or may be displayed on the connected indicator (if the indicator supports this).

FIGURE S842 – 1



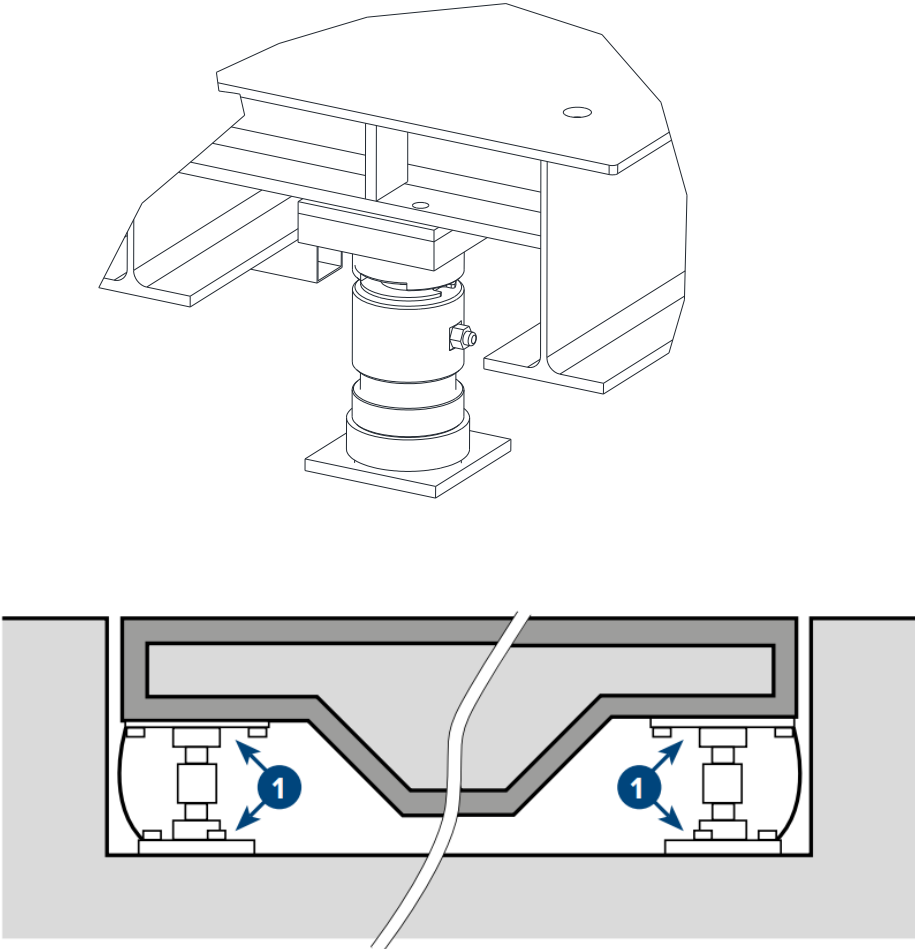
Dini Argeo Model RCD Series Load Cell

FIGURE S842 – 2



Dini Argeo Model JB10QD-1 Digital Load Cell Junction Box

FIGURE S842 – 3



Typical Mounting Arrangement

~ End of Document ~