



Australian Government
Department of Industry,
Science and Resources

**National
Measurement
Institute**

36 Bradfield Road, West Lindfield NSW 2070

Certificate of Approval

NMI 6/9C/329

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 ETDI15 Weighing Instrument

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 76, *Nonautomatic weighing instruments, Parts 1 and 2*, dated October 2015.

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 & variants 1 to 4 approved – certificate issued	27/10/23

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/9C/329' 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.

Auxiliary devices used with this instrument shall comply with the requirements of General Supplementary Certificate of Approval No S1/0B.

The pattern as approved herein or with substitute approved load cells and/or approved indicators, and in other capacities, or with different platform sizes, shall comply with General Certificate of Approval No 6B/0.

Note:

New instruments manufactured under this approval shall only use load cells and/or indicators with current Supplementary Certificates of Approval; and

New instruments manufactured under this approval with analogue load cells connected parallel to each other in a junction box shall comply with 6-wire cable connection requirements between the junction box and the indicator as shown in Figures 3a and 3b; and

Instruments manufactured or converted under this approval shall only use approved indicators with reference to document NMI R 76 dated October 2015 or later.

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 6/9C/329

1. Description of Pattern

approved on 27/10/23

A Dini Argeo model ETDI15 (Figure 1a) class  self-indicating single interval non-automatic weighing instrument of 1500 kg maximum capacity with verification scale interval of 0.5 kg and with a minimum capacity of 10 kg, and approved for use with up to 3000 verification scale intervals.

1.1 Basework

The model ETDI15 basework (Figure 1a) has the load receptor directly supported by four load cells which are fitted with self-aligning supporting feet. This model basework has a nominal dimension of 1250 mm x 1500 mm and a stainless steel construction.

If approach ramps are provided care shall be taken to ensure that these do not interfere with the platform.

1.2 Load Cells

Four Dini Argeo model SBX-1KL stainless steel load cells of 1000 kg capacity are used and mounted as shown in Figure 2. The load cells are also described in the documentation of approval NMI S834.

1.2.1 Load Cell connection

The load cells are connected parallel to each other in a junction box; and a 6-wire cable connection is used between the junction box and the indicator as shown in Figures 3a and 3b.

1.3 Indicator

A Dini Argeo model 3590EGTT digital indicator is used. The indicator is also described in the documentation of approval NMI S788.

1.4 Levelling

The basework may be installed in a permanently fixed location, in such case no level indicator is required.

Where instruments are liable to be tilted (i.e. they are not installed in a permanently fixed location) they are provided with adjustable feet and a visible level indicator (Figure 1b).

The instrument is to be used in a level condition as indicated by the level indicator.

1.5 Verification Provision

Provision is made for the application of a verification mark.

1.6 Sealing Provision

Sealing provision is described in the approval documentation of the indicator.

1.7 Software

The legally relevant software version and number are described in the approval documentation of the indicator.

1.8 Descriptive Markings and Notices

Instruments carry the following markings:

Manufacturer's mark, or name written in full	Dini Argeo
Indication of accuracy class	Ⓜ
Pattern approval number for the instrument	NMI 6/9C/329
Pattern approval number for the load cells	NMI S...
Pattern approval number for the indicator	NMI S...
Maximum capacity	<i>Max</i> kg #1
Minimum capacity	<i>Min</i> kg #1
Verification scale interval	<i>e</i> = kg #1
Tare capacity	<i>T</i> = - kg #2
Serial number of the instrument

#1 These markings shall be shown near the display of the result.

#2 This marking is required if *T* is not equal to *Max*.

2. Description of Variant 1 approved on 27/10/23

Dini Argeo ET#I* series instruments as single interval instruments may be up to 3000 verification scale intervals and in capacities of 300 kg up to 10 000 kg using approved load cells and/or an approved indicator (in accordance with NMI General Certificate of Approval No 6B/0), and with platform widths up to 2000 mm and platform lengths up to 2500 mm.

Note: Where # in the model number represents a code for nominal platform size and * represents maximum capacity (*Max*) of the instrument, e.g. the pattern model ETDI15 is of 1500 kg capacity having a platform size of 1250 mm x 1500 mm.

3. Description of Variant 2 approved on 27/10/23

Dini Argeo ET#I* series instruments as multi-interval instruments with up to two partial weighing ranges (each with its own verification scale intervals) in which case is approved for used with up to 3000 verifications scale intervals per partial weighing range and in capacities of 300 kg up to 10 000 kg using approved load cells and/or an approved indicator (in accordance with NMI General Certificate of Approval No 6B/0), and with platform widths up to 2000 mm and platform lengths up to 2500 mm.

Instruments are marked with the 'Maximum capacity' and 'Verification scale interval' for both interval ranges, e.g. as follows:

Maximum capacity	<i>Max</i>/...../..... kg
Verification scale interval	<i>e</i> =/...../..... kg

4. Description of Variant 3 approved on 27/10/23

Dini Argeo ET#I* series instruments as multiple range weighing instrument with up to two weighing ranges, in which case it is approved for use with up to 3000 verification scale intervals per weighing range and in capacities of 300 kg up to 10 000 kg using approved load cells and/or an approved indicator (in accordance with NMI General Certificate of Approval No 6B/0), and with platform widths up to 2000 mm and platform lengths up to 2500 mm.

Instruments are marked with the maximum capacity, minimum capacity and verification scale interval for each range, with an indication of the range to which they apply, e.g.

Range	1	2
Max kg kg
Min kg kg
e = kg kg

5. Description of Variant 4

approved on 27/10/23

Dini Argeo ET#* series instruments which are similar to the pattern and variants 1 to 3 but having a mild steel construction.

TEST PROCEDURE No 6/9C/329

Instruments shall be tested in accordance with any relevant tests specified in the National Instrument Test Procedures.

The instrument shall not be adjusted to anything other than as close as practical to zero error, even when these values are within the maximum permissible errors.

Maximum Permissible Errors

The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

For multi-interval and multiple range instruments with verification scale intervals of e_1 , e_2 ..., apply e_1 for zero adjustment, and maximum permissible errors apply e_1 , e_2 ..., as applicable for the load.

FIGURE 6/9C/329 – 1



(a) Dini Argeo Model ETD115 Weighing Instrument



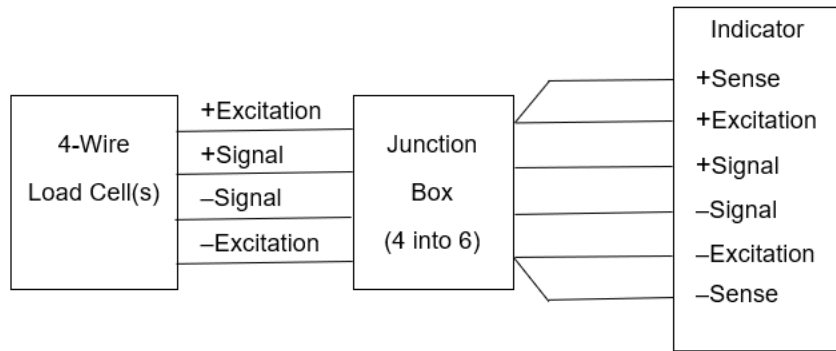
(b) Level Indicator Location

FIGURE 6/9C/329 – 2

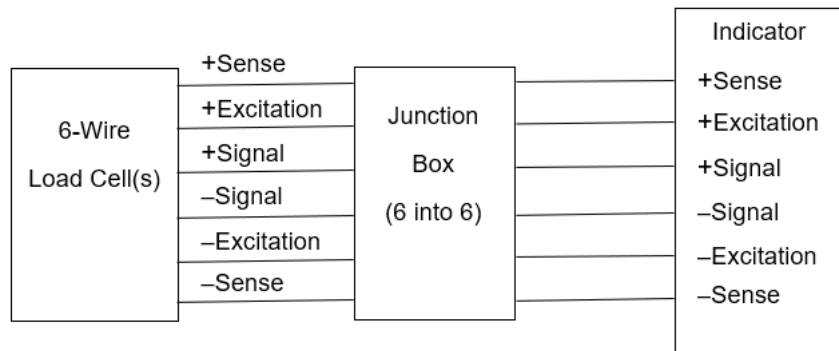


Mounting for Load cell

FIGURE 6/9C/329 – 3



a) 4-Wire Analogue Load Cell Connection Using Junction Box



b) 6-Wire Analogue Load Cell Connection Using Junction Box

~ End of Document ~