



Australian Government
Department of Industry,
Innovation and Science

National Measurement Institute

Certificate of Approval NMI 6/9C/298

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.

Siraga Model ULIS II Weighing Instrument

submitted by Siraga SA
36500 Buzancais
FRANCE.

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, *Non-automatic weighing instruments, Parts 1 and 2*, dated July 2004.

This approval becomes subject to review on **1/05/22**, and then every 5 years thereafter.

DOCUMENT HISTORY

| Rev | Reason/Details | Date |
|-----|---|----------|
| 0 | Pattern & variant 1 approved – certificate issued | 18/09/08 |
| 1 | Pattern & variant 1 amended (test procedure) & reviewed – certificate issued | 27/04/17 |
| | | |

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6/9C/298' 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 Certificates No S1/0/A or No S1/0B.

Signed by a person authorised by the Chief Metrologist to exercise their powers under Regulation 60 of the *National Measurement Regulations 1999*.

A handwritten signature in black ink, appearing to read 'A Rawlinson', with a horizontal line underneath.

Dr A Rawlinson

TECHNICAL SCHEDULE No 6/9C/298

1. Description of Pattern

approved on 18/09/08

A Siraga model Ulis II class **III** self-indicating non-automatic weighing instrument (Figure 1 and Table 1) of 100 kg maximum capacity with a verification scale interval of 0.05 kg

Instruments may be fitted with output sockets (output interfacing capability) for the connection of auxiliary and/or peripheral devices.

1.1 Basework

The model Ulis II has the load receptor directly supported by a single HBM model PW12 CC3 load cell of 300 kg maximum capacity. The load receptor has maximum nominal dimensions of 440 x 490 mm.

1.2 Zero

Zero is automatically corrected to within $\pm 0.25e$ whenever the instrument comes to rest within $0.5e$ of zero.

The instrument has a semi-automatic zero-setting device and/or an automatic zero-setting device (to set the instrument to within $\pm 0.25e$ of zero) with a nominal range of not more than 4% of the maximum capacity of the instrument.

The instrument has an initial zero-setting device with a nominal range of not more than 20% of the maximum capacity of the instrument.

1.3 Tare

A semi-automatic subtractive tare device and/or a pre-set tare device, each of up to maximum capacity, may be fitted.

1.4 Additional Features

Instruments may be fitted with certain additional functions including 'Tenths' (a form of extended indicating device), a display of supply voltage and 'Threshold' (set point values). The additional functions (other than the indications of measured mass, i.e. gross, tare, net, displayed either on the indicator or on an auxiliary or peripheral device), are not approved for trade use.

1.5 Interfaces

The indicator may be fitted with interfaces for the connection of auxiliary and/or peripheral devices. The interfaces shall comply with clause 5.3.6 of NMI R76 (the basic intent of which is that it shall not be possible to alter weighing results via the interfaces).

Any measurement data output from the instrument or its interfaces shall only be used for trade in compliance with NMI General Supplementary Certificates No S1/0/A or No S1/0B (in particular in regard to the data and its format).

Indications other than the indications of measured mass (i.e. gross, tare, net, totals) displayed either on the indicator or on an auxiliary or peripheral device, are not for trade use.

The following interface options may be fitted:

- serial interface (e.g. RS 232/RS 485); and

- logic interface with 5 inputs and 7 outputs.

1.6 Display Check

A display check is initiated whenever power is applied.

1.7 Power Supply

The instrument operates from a 12 V DC power source, either from a battery or via an ALIMULI type 24 V AC/12 V DC converter – the submitter should be consulted regarding the acceptability of alternative power supply units.

1.8 Levelling

The instrument shall be installed in a fixed position.

1.9 Descriptive Markings and Notices

Instruments carry the following markings:

| | |
|--|--------------------------|
| Manufacturer's mark, or name written in full | Siraga SA |
| Indication of accuracy class | Ⓜ |
| Pattern approval number for the instrument | NMI 6/9C/298 |
| Maximum capacity | <i>Max</i> kg #1 |
| Minimum capacity | <i>Min</i> kg #1 |
| Verification scale interval | <i>e</i> = kg #1 |
| Tare capacity (if less than <i>Max</i>) | <i>T</i> = - kg #2 |
| Serial number of the instrument | |

#1 These markings shall also be shown near the display of the result if they are not already located there.

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

In addition, instruments shall carry a notice stating NOT TO BE USED FOR TRADING DIRECT WITH THE PUBLIC, or similar wording.

1.10 Verification Provision

Provision is made for a verification mark to be applied.

1.11 Sealing Provision

Provision is made for the sealing of the calibration adjustments of the instrument by the application of destructible adhesive labels over the opposite sides of the instrument casing (Figure 2).

2. Description of Variant 1

approved on 18/09/08

Certain other Siraga model Ulis II single interval weighing instruments which are similar to the pattern but having other capacities as listed in Table 1.

TABLE 1

| Maximum Capacity <i>Max</i> | Verification Scale Interval <i>e</i> | Minimum Capacity <i>Min</i> | Load Cell Model and <i>E</i> _{max} |
|--------------------------------|---|--------------------------------|---|
| 60 kg | 0.02 kg | 0.4 kg | HBM PW12 CC3, 150 kg |
| 50 kg | 0.05 kg | 1 kg | HBM PW12 CC3, 300 kg |
| 100 kg | 0.1 kg | 2 kg | HBM PW12 CC3, 300 kg |
| 150 kg | 0.1 kg | 2 kg | HBM PW12 CC3, 300 kg |

TEST PROCEDURE

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

Maximum Permissible Errors

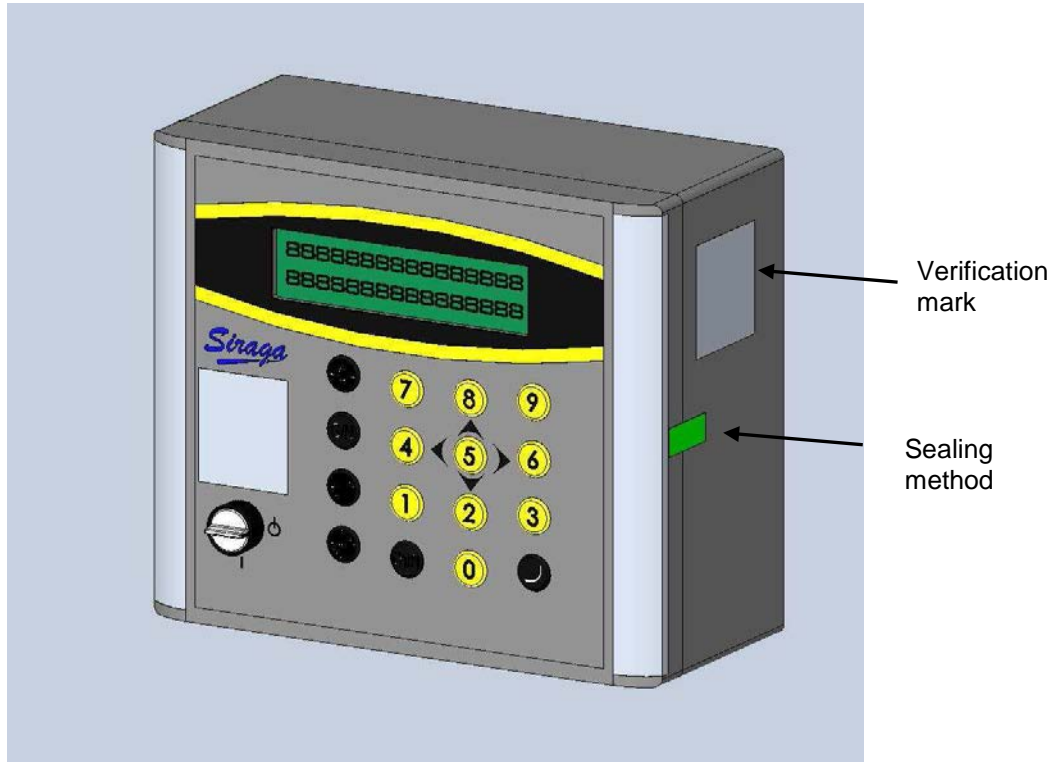
The maximum permissible errors are specified in Schedule 1 of the *National Trade Measurement Regulations 2009*.

FIGURE 6/9C/298 – 1



Siraga Model Ulis II Weighing Instrument

FIGURE 6/9C/298 – 2



Sealing Provision

~ End of Document ~