



Australian Government

National Measurement
Institute

Bradfield Road, West Lindfield NSW 2070

Conversion Certificate of Approval

NMI 6B/247

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.

Complete Weighing Solutions Model CWS-WB (Converted) Weighing Instrument

submitted by Complete Weighing Solutions
Unit 2, 351 MacDonnell Road
Clontarf QLD 4019

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 becomes subject to review on **1/06/18**, and then every 5 years thereafter.

DOCUMENT HISTORY

Rev	Reason/Details	Date
0	Pattern and variants 1 & 2 approved – certificate issued	16/05/08
1	Pattern and variants 1 & 2 reviewed & updated – certificate issued	24/01/14

CONDITIONS OF APPROVAL

General

Instruments purporting to comply with this approval shall be marked with pattern approval number 'NMI 6B/247' 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 components where they are approved separately.

Special:

Instruments shall not be manufactured using this approval. Instruments shall only be converted or modified as described herein or with substitute load cells and/or indicator, and in other capacities, in accordance with General Certificate No 6B/0.

DESCRIPTIVE ADVICE

1. Description of Pattern **approved on 16/05/08**

A converted Complete Weighing Solutions model CWS-WB self-indicating weighing instrument of 60 000 kg maximum capacity with up a verification scale interval of 20 kg. The pattern (as described in approval NMI 6/10B/82) has been converted by replacement of the indicator and is now fitted with six Precision Transducers model HPC load cells of 45 000 kg capacity (as described in the documentation of approval NMI (or NSC) S412) and now uses an A & D Mercury model AD-4323 digital indicator (as described in the documentation of approval NMI (or NSC) S251A).

2. Description of Variant 1 **approved on 16/05/08**

With the basework of any approved mechanical or lever/load cell weighing instrument converted in accordance with General Certificate No 6B/0. (refer Special Condition of Approval)

3. Description of Variant 2 **approved on 16/05/08**

With the indicator of any approved full load cell weighing instrument replaced by another approved digital indicator in accordance with General Certificate No 6B/0. (refer Special Condition of Approval)

TEST PROCEDURE

Instruments should be tested in conjunction with any tests specified in the approval documentation for the indicator used, and in accordance with any relevant tests specified in the National Instrument Test Procedures.

Maximum Permissible Errors at Verification

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

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



Dr A Rawlinson