National Standards Commission

Supplementary Certificate of Approval

No S271

Issued under Regulation 9
of the
National Measurement (Patterns of Measuring Instruments) Regulations

This is to certify that an approval for use for trade has been granted in respect of the

Weightronix Model WI-120 Digital Indicator

submitted by Salter Weightronix Pty Ltd
1 Apollo Court
Blackburn VIC 3130.

Signed and sealed by a person authorised under Regulation 9 of the National Measurement (Patterns of Measuring Instruments) Regulations to exercise the powers and functions of the Commission under this Regulation.

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CONDITIONS OF APPROVAL

This approval is subject to review on or after 1/10/95.
This approval expires in respect of new instruments on 1/10/96.

Instruments purporting to comply with this approval shall be marked NSC No S271 and only by persons authorised by the submittor.

Instruments incorporating a component purporting to comply with this approval shall be marked NSC No S271 in addition to the approval number of the instrument.

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 Commission 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 the Commission's Document 106.

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

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.

The Commission reserves the right to examine any instrument or component of an instrument purporting to comply with this approval.

DESCRIPTIVE ADVICE

Pattern: approved 28/9/90

- A Weightronix model WI-120 digital mass indicator.

Variant: approved 23/11/90

1. With additional management functions.

Technical Schedule No S271 describes the pattern and variant 1.

Variant: approved 9/12/91

2. A model WI-120B indicator with a batch weighing facility.

Technical Schedule No S271 Variation No 1 describes variant 2.

FILING ADVICE

The documentation for this approval comprises.

Supplementary Certificate of Approval No S271 dated 3/3/92
Technical Schedule No S271 dated 28/2/91 (incl. Table 1 and Test Procedure)
Technical Schedule No S271 Variation No 1 dated 3/3/92
Figure 1 dated 28/2/91

National Standards Commission

TECHNICAL SCHEDULE No S271

Pattern: Weightronix Model WI-120 Digital Indicator

Submittor: Salter Weightronix Pty Ltd
1 Apollo Court
Blackburn VIC 3130.

1. Description of Pattern

A Weightronix model WI-120 digital mass indicator approved for use with up to 10 000 verification scale intervals which may be fitted with output sockets for the connection of auxiliary and/or peripheral devices.

The instrument may be as shown in Figure 1 or in alternative housings.

1.1 Zero

Zero is automatically set to within ± 0.25e whenever the instrument comes to rest within ± 0.5e. If the instrument comes to rest outside that range but within the zero setting range, zero may be set by pressing the zero button.

1.2 Display Check

A display check is initiated whenever the LAMP TEST button is pressed.

1.3 Tare

Instruments may be fitted with a semi-automatic subtractive taring device and/or a non-automatic taring device each of up to maximum capacity. Tare values may be stored in one of up to ten memories.

1.4 Set Point

Instruments may be fitted with a set point facility.

1.5 Verification Provision

Provision is made for a verification mark to be applied.

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1.6 Markings

Instruments are marked with the following data, together in one location:

Manufacturer's name or mark		
Serial number		
Accuracy class		(III)
Maximum capacity		Max..... *
Minimum capacity		Min ..... *
Verification scale interval		e = d = ... *
Maximum subtractive tare		T = - .....
NSC approval numbers	indicator	NSC No S271
-	other components	..... #

* Repeated in the vicinity of each reading face.
\# May be located separately from the other markings.

TABLE 1

Type: Weightronix	WI-120
Maximum number of verification scale intervals	10 000
Minimum sensitivity	2×10^{-3} mV/scale interval
Excitation voltage	15 V DC
Minimum load impedance	29 ohms
Maximum excitation current	514 mA

2. Description of Variant 1

With additional management/control functions.

TEST PROCEDURE

Instruments shall be tested in conjunction with any tests specified in the approval documentation for the instrument to which the pattern is connected, as appropriate, and in accordance with any relevant tests specified in the Inspector's Handbook.

The maximum permissible errors applicable are those applicable to the system to which the instrument approved herein is fitted, as stated in the approval documentation for the system.

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TECHNICAL SCHEDULE No S271

VARIATION No 1

Pattern: Weightronix Model WI-120 Digital Indicator

Submittor: Salter Weightronix Pty Ltd
1 Apollo Court
Blackburn VIC 3130.

1. Description of Variant 2

A Weightronix model WI-120B ("Batch Tech") digital mass indicator which has the features of the pattern and, in addition, has a batch weighing facility which includes set points.

FIGURE S271 - 1

WEIGHTRONIX MODEL WI - 120

S271
28/2/91