

NATIONAL STANDARDS COMMISSION

CANCELLED 013

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S116

This is to certify that the pattern and variants of the

Toledo Digital Indicator Model 8136

submitted by Toledo-Berkel Pty Ltd, 525 Graham Street, Port Melbourne, Victoria, 3207,

• • •

have been approved under the Weights and Measures (Patterns of Instruments) Regulations as being suitable for use for trade when replacing Toledo Digital Indicator Model 8130 in any Commission-approved weighing instrument specified in the attached Technical Schedule.

Pattern: approved 21/11/80

. Toledo Digital Indicator Model 8136 with a maximum of 5005 scale intervals.

Variants: approved 21/11/80

1. In an industrial-type housing.

2. With analogue verification facility.

The pattern and variants are described in Technical Schedule No S116 issued on 16/1/81 and in drawings and specifications lodged with the Commission.

The pattern and variants are subject to review on or after 30/11/85.

The approval is subject to the following condition:

1. Any weighing instrument fitted with a Toledo Digital Indicator Model 8136 shall have a maximum number of scale intervals of 5005.

All instruments modified in accordance with this Certificate shall be marked with the approval number "NSC No S116", in addition to the approval number of the unmodified pattern.

Signed

Executive Director



NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S116

Pattern: Toledo Digital Indicator Model 8136

Submittor: Toledo-Berkel Pty Ltd, 525 Graham Street, Port Melbourne, Victoria, 3207.

1. Description of Pattern

A digital mass indicator displaying up to 5005 scale intervals (Figure 1). It may be substituted for Toledo Digital Indicator Model 8130 in any of the patterns listed in Table 1.

1.1 Zero

Pressing the button marked ZERO, zeroes the instrument to within $\pm 0.25e$ and a light designated as ZERO is illuminated. An automatic zero-correction device resets zero within $\pm 0.25e$.

1.2 Tare

- (a) A semi-automatic subtractive taring device allows a mass on the load receptor of up to 5000e to be tared within $\pm 0.25e$.
- (b) A non-automatic subtractive taring device is provided so that an operator can enter a tare in 1e increments up to 5000e by using the 0 to 9 keyboard.
- (c) A tare mass indicator indicates that a tare has been entered.

1.3 Display verification

Pressing the ZERO button causes the mass indicator to blank showing only the centre segments of the display; it also causes all the indicator lights to illuminate. In addition there is an optional feature whereby automatic verification circuitry within the instrument continuously checks the condition of the displays. If this automatic verification detects a fault the bottom segment of each display is illuminated.

1.4 Markings

Instruments which incorporate this headwork are marked on the indicator with the following data:

Manufacturer's name				\frown
Accuracy class in the form:				(111)
Serial number of instrument Maximum capacity in the form:				<u>Мах</u> *
Minimum capacity in the form:				Min*
Verification scale interval in the form:				d _d = e =*
Maximum subtractive tare in the form	1:			Τ =
NSC approval numbers in the form:	Headwork	NSC N	o o S11	••••••
	Basework	NSC N	o	
Load cell serial number				

* These markings are repeated in the vicinity of each reading of face.

- 1.5.1 A lead and wire seal passes through a retaining screw and a lug on the indicator (Figure 1).
- 1.5.2 The output socket, which may be used to provide information to peripheral devices, is sealed in the manner illustrated in Figure 2.

2. Description of variants

2.1 Variant 1

In an industrial-type wall mount housing.

The instrument is sealed by a wire and lead seal which passes through a lug on the front and a bracket on the side of the housing (Figure 3).

2.2 Variant 2

With analogue verification facility. This circuit automatically checks that the analogue part of the instrument is performing satisfactorily whenever the instrument returns to zero, or when the button marked AV is pressed with the instrument at zero. The detection of an error is indicated by the instrument displaying ERROR U.

3. Test Procedure

3.1 The instrument should be tested as indicated in the Technical Schedule describing the unmodified pattern as listed in Table 1.

TABLE 1

Original Certificate	Toledo Model No's
6/4C/25	3165-8130, and 3185-8130
6/9C/30	2184-8130
6/9C/42	2084, 280
6/9C/44	2154-LCF
6/9C/45	2154-8130
6/9C/46	2503-8130
6/9C/50	2154-LCE
6/10B/23	840-8130
6/14B/9	2352-8130
6/18/6	2250-8130
6/18/7	2250-LCD



NATIONAL STANDARDS COMMISSION

NOTIFICATION OF CHANGE

Subbrameurary carefulations of whitewar was a	
S	104
S	106
S	08
S	13
S	16

The changes given below are made to the descriptions of the following Supplementary Certificates:

Cartificate No.

Title

S102	Toledo Digital Indicator Hodel 8132
S104	Toledo Digital Indicator Hadol 8134
S106	Avery Digital Indicator Hodel 8652
5108	Ultra Indicator Hodel 9000
S113	Avery Digital Indicator Hodel 8653
5116	Toledo Digital Indicator Hodel 8136

1. Certificate

Add to end of first paragraph:

.... or when replacing the indicator in any other Commission-approved weighing instrument.

2. Technical Schedule

Add to end of paragraph 1:

.... or far the indicator in any other Commission-approved weighing instrument.

Signed 7. jeln Executive Director

These changes have been mode as a result of increased confidence in

varying makes and capacities of load cells.

the performance of the indicators in conjunction with widely

27/4/81

Note:





Example of Sealing of Output Socket



16/1/81