CANCELLED 93
31-12-90

NATIONAL STANDARDS COMMISSION

SUPPLEMENTARY CERTIFICATE OF APPROVAL No S104

This is to certify that the pattern and variants of the

Toledo Digital Indicator Model 8134

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 9/9/80

Toledo Digital Indicator Model 8134 with a maximum of 3005 scale intervals, with a digital tare function.

Variants: approved 9/9/80

1. Without digital tare.

2. With a lb/kg switch. This variant is approved only for weighing goods for export.

The pattern and variants are described in Technical Schedule No S104 issued on 7/10/80, and in drawings and specifications lodged with the Commission.

The pattern and variants are subject to review on or after 30/9/85.

Condition of Approval

Any weighing instrument fitted with a Toledo Digital Indicator Model 8134 shall have a maximum number of scale intervals of 3005.

All instruments modified in accordance with this Certificate shall be marked with the approval number "NSC No S104", in addition to the approval number of the unmodified pattern.

Signed

[signature]

[illegible] Executive Director

NATIONAL STANDARDS COMMISSION

TECHNICAL SCHEDULE No S104

Pattern: Toledo Digital Indicator Model 8134

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

1. Description of Pattern

A digital mass indicator displaying up to 3005 scale intervals and fitted with a digital tare function (Figure 1). It may be substituted for a Toledo Indicator Model 8130 in any of the patterns listed in Table 1.

1.1 Zero

Pressing the button marked Z zeroes the instrument to within $\pm$0,25e; the word ZERO is then illuminated. An automatic zero-correction device resets zero within $\pm$0,25e whenever the mass indicator indicates zero.

1.2 Tare

(a) A semi-automatic subtractive taring device allows a mass on the load receptor of up to 3000e to be tared to within $\pm$0,25e by pressing the tare button.

(b) A non-automatic subtractive taring device is provided so that an operator can enter a tare in 1e increments up to 3000e by using the 0 to 9 keyboard and then pressing the tare button.

(c) The word TARE illuminates when a tare has been entered.

1.3 Check Button

Pressing the button marked V will cause the indicators to display either:-

(i) all 8's and all other indicators illuminated, or

(ii) blank.

When pressed again the alternative not previously displayed will be displayed.

1.4 Markings

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

Manufacturer's name	
Accuracy class in the form:	(III)
Serial number of instrument	
Maximum capacity in the form:	Max .....*
Minimum capacity in the form:	Min .....*
Verification scale interval in the form:	d_d = e = ...*
Maximum subtractive tare in the form:	T = -.....
NSC approval numbers in the form:	Headwork: NSC No .....
	NSC No S104
	Basework: NSC No .....
Load cell serial number	

1.5 Sealing

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 sockets, which may be used to provide information to peripheral devices, are sealed in the manner illustrated in Figure 2.

2. Description of Variants

2.1 Without digital tare.

2.2 With a lb/kg switch (Figure 1 inset). This variant is only permitted to be used in weighing goods for export.

3. Test Procedure

1. Accuracy Requirements

The maximum permissible errors are

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

±0,5e for loads between 0 and 500e;

±1e for loads between 501e and 2000e; and

±1,5e for loads above 2000e.

2. The instrument should be tested as indicated in the Technical Schedule which describes the unmodified pattern.

3. Check the function of the lb/kg switch, using 1 kg = 2,205 lb.

Note: Where only Metric Weights are available for test, an error tolerance of twice that listed above will apply to the measurement of Imperial quantities.

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 and 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

Supplementary Certificates of Approval Nos S102
S104
S106
S108
S113
S116

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

Certificate No.	Title
S102	Toledo Digital Indicator Model 8132
S104	Toledo Digital Indicator Model 8134
S106	Avery Digital Indicator Model 8652
S108	Ultra Indicator Model 9000
S113	Avery Digital Indicator Model 8653
S116	Toledo Digital Indicator Model 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 for the indicator in any other Commission-approved weighing instrument.

Signed

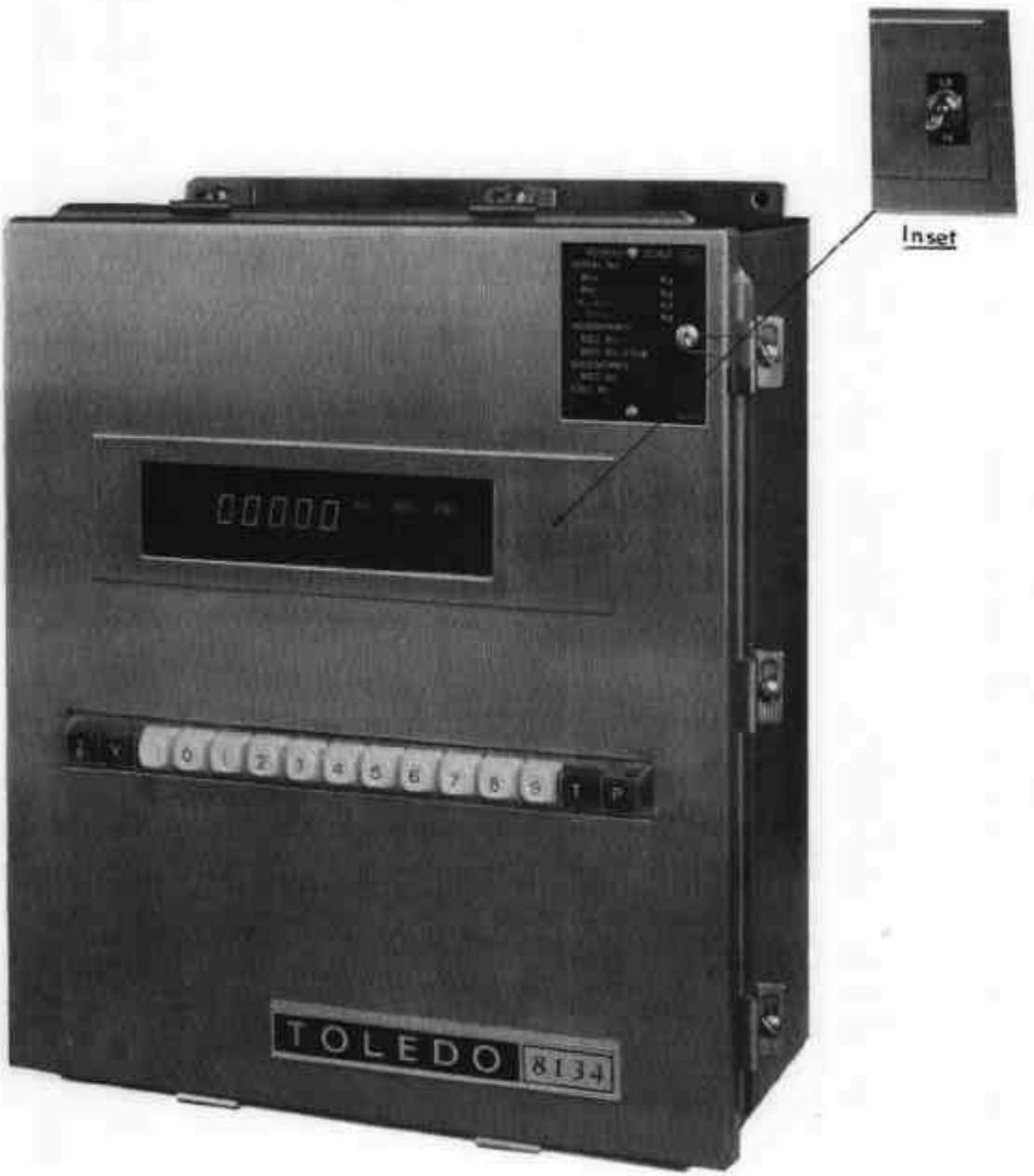
J. Petty

Executive Director

Note: These changes have been made as a result of increased confidence in the performance of the indicators in conjunction with widely varying makes and capacities of load cells.

27/4/81

FIGURE S104 - 1



Toledo Indicator Model 8134
(Inset Shows lb/kg Switch)

7/10/80